MSY-GE-NA COOLING ONLY Wall-Mount Air System

1. INDOOR UNITS MXZ-GE-NA-3

2. OUTDOOR UNITS MXZ-GE-NA-4

3. SYSTEM MXZ-GE-NA-5

3-1. SPECIFICATIONS MXZ-GE-NA-6
- MSY-GE09NA-8 MSY-GE12NA-8 MSY-GE15NA-8 MSY-GE18NA-8 ..... MXZ-GE-NA-6
- MSY-GE24NA MXZ-GE-NA-7
- MUY-GE09NA MUY-GE12NA MXZ-GE-NA-8
- MUY-GE15NA-1 MUY-GE18NA-1 ..... MXZ-GE-NA-9
- MUY-GE24NA MXZ-GE-NA-10
- Efficiency Ratings MXZ-GE-NA-11

3-2. EXTERNAL DIMENSIONS MXZ-GE-NA-12
- MSY-GE09NA-8 MSY-GE12NA-8 MSY-GE15NA-8 MSY-GE18NA-8 ..... MXZ-GE-NA-12
- MSY-GE24NA MXZ-GE-NA-13
- MUY-GE09NA MUY-GE12NA MUY-GE15NA-1 ..... MXZ-GE-NA-14
- MUY-GE18NA-1 ..... MXZ-GE-NA-15
- MUY-GE24NA MXZ-GE-NA-16

3-3. CENTER OF GRAVITY MXZ-GE-NA-17

3-4. ELECTRICAL WIRING DIAGRAMS MXZ-GE-NA-18
- MSY-GE09NA-8 MSY-GE12NA-8 MSY-GE15NA-8 MSY-GE18NA-8 ..... MXZ-GE-NA-18
- MSY-GE24NA MXZ-GE-NA-19
- MUY-GE09NA MUY-GE12NA MXZ-GE-NA-20
- MUY-GE15NA-1 ..... MXZ-GE-NA-21
- MUY-GE18NA-1 ..... MXZ-GE-NA-22
- MUY-GE24NA MXZ-GE-NA-23

3-5. REFRIGERANT SYSTEM DIAGRAMS MXZ-GE-NA-24
- MSY-GE09NA-8 MSY-GE12NA-8 MSY-GE15NA-8 MSY-GE18NA-8 ..... MXZ-GE-NA-24
- MUY-GE09NA MXZ-GE-NA-25
- MUY-GE12NA MUY-GE15NA-1 ..... MXZ-GE-NA-26
- MUY-GE18NA-1 ..... MXZ-GE-NA-27
- MUY-GE24NA MXZ-GE-NA-28

3-6. CAPACITY CORRECTION CURVE BY TEMPERATURE MXZ-GE-NA-29
- (1) Indoor Unit MXZ-GE-NA-29
- (2) Outdoor Unit MXZ-GE-NA-30

3-7. CAPACITY CORRECTION TABLE BY TEMPERATURE MXZ-GE-NA-31

3-8. CAPACITY CORRECTION CURVE BY REFRIGERANT PIPING LENGTH MXZ-GE-NA-32

3-9. CAPACITY CORRECTION TABLE BY REFRIGERANT PIPING LENGTH MXZ-GE-NA-33
- (1) Cooling capacity correction MXZ-GE-NA-33
- (2) Maximum refrigerant piping length & maximum height difference MXZ-GE-NA-33
- (3) M-Series Cooling Correction MXZ-GE-NA-34

Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

3-10. CHARGE CALCULATIONS MXZ-GE-NA-35
3-11. AIR FLOW DATA MXZ-GE-NA-36
Outlet Air Speed And Coverage MXZ-GE-NA-36
3-12. SOUND PRESSURE LEVELS MXZ-GE-NA-37
(1) Indoor Unit MXZ-GE-NA-37
(2) Outdoor Unit MXZ-GE-NA-39
3-13. STANDARD OPERATION RANGE MXZ-GE-NA-43
3-14. ACCESSORIES MXZ-GE-NA-44
(1) Indoor Unit MXZ-GE-NA-44
(2) Outdoor Unit MXZ-GE-NA-47

Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

1. INDOOR UNITS

- MSY-GE09NA-8
- MSY-GE12NA-8
- MSY-GE15NA-8
- MSY-GE18NA-8
- MSY-GE24NA

Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

2. OUTDOOR UNITS

- MUY-GE09NA
- MUY-GE12NA
- MUY-GE15NA-1
- MUY-GE18NA-1
- MUY-GE24NA

Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

3. SYSTEM

- Wall-mounted indoor unit
- Standard Hybrid Catechin Prefilter is included with indoor unit
- Quiet operation
- Auto fan speed control: Quiet, Low, Medium, High, and Super High
- Hand-held Wireless Remote Controller
- Indoor unit powered from outdoor unit using A-Control
- Auto restart following a power outage
- Anti-allergy Enzyme Filter
- Limited warranty: five years parts and seven years compressor

Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

MSY-GE09NA-8 MSY-GE12NA-8 MSY-GE15NA-8 MSY-GE18NA-8

Model name			MSY-GE09NA-8	MSY-GE12NA-8
Power supply	V, phase, Hz		208/230, 1, 60	
Max. fuse size (time delay)/ Disconnect switch		A	15	
Min. circuit ampacity		A	1.0	
Blower Motor (ECM)		F.L.A	0.76	
Airflow Super High - High - Med. - Low - Quiet	COOL Dry (Wet)	CFM	399-321-237-170-145 (364-286-201-134-109)	
Moisture removal		pt./h	1.5	2.5
Sensible Heat Factor			0.82	0.74
Sound level Super High - High - Med. - Low - Quiet	Cooling	dB(A)	43-37-30-22-19	45-37-30-22-19
Cond. drain connection O.D.		in.	5/8	
Dimensions	W	in.	31-7/16	
	D		9-1/8	
	H		11-5/8	
Weight		lb.	22	
External finish			Munsell 1.0Y 9.2/0.2	
Control voltage (by built-in transformer)			12 - 24 VDC	

Model name			MSY-GE15NA-8	MSY-GE18NA-8
Power supply	V, phase, Hz		208/230, 1, 60	
Max. fuse size (time delay)/ Disconnect switch		A	15	
Min. circuit ampacity		A	1.0	
Blower Motor (ECM)		F.L.A	0.76	
Airflow Super High - High - Med. - Low - Quiet	COOL Dry (Wet)	CFM	533-420-335-272-205 (498-385-300-237-170)	533-420-339-275-230 (498-385-304-240-194)
Moisture removal		pt./h	2.7	4.6
Sensible Heat Factor			0.80	0.71
Sound level Super High - High - Med. - Low - Quiet	Cooling	dB(A)	49-44-38-32-26	49-44-38-33-28
Cond. drain connection O.D.		in.	5/8	
Dimensions	W	in.	31-7/16	
	D		9-1/8	
	H		11-5/8	
Weight		lb.	22	
External finish			Munsell 1.0Y 9.2/0.2	
Control voltage (by built-in transformer)			12 - 24 VDC	

NOTE: Test conditions are based on ARI 210/240.

❇1: Rating conditions (Cooling) — Indoor: 80˚FDB, 67˚FWB, Outdoor: 95˚FDB, (75˚FWB) Rated frequency
(Heating) — Indoor: 70˚FDB, 60˚FWB, Outdoor: 47˚FDB, 43˚FWB Rated frequency
❇2: (Heating) — Indoor: 70˚FDB, 60˚FWB, Outdoor: 17˚FDB, 15˚FWB Maximum frequency

Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

MSY-GE24NA

Model name			**MSY-GE24NA**
Power supply	V, phase, Hz		208/230, 1, 60
Max. fuse size (time delay)/ Disconnect switch		A	20
Min. circuit ampacity		A	1.0
Blower Motor (ECM)		F.L.A	0.76
Airflow Powerful - High - Med - Low	COOL Dry (Wet)	CFM	738-628-469-388 (661-562-420-347)
Moisture removal		pt./h	5.1
Sensible Heat Factor			0.75
Sound level Powerful - High - Med - Low	Cooling	dB(A)	53-49-41-34
Cond. drain connection O.D.		in.	5/8
Dimensions	W	in.	43-5/16
	D		9-3/8
	H		12-13/16
Weight		lb.	22
External finish			Munsell 1.0Y 9.2/0.2
Control voltage (by built-in transformer)			12 - 24 VDC

NOTE: Test conditions are based on ARI 210/240.

❊1: Rating conditions (Cooling) — Indoor: 80˚FDB, 67˚FWB, Outdoor: 95˚FDB, (75˚FWB) Rated frequency

(Heating) — Indoor: 70˚FDB, 60˚FWB, Outdoor: 47˚FDB, 43˚FWB Rated frequency

❊2: (Heating) — Indoor: 70˚FDB, 60˚FWB, Outdoor: 17˚FDB, 15˚FWB Maximum frequency

Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

3-1. SPECIFICATIONS

MUY-GE09NA MUY-GE12NA

Model name			MUY-GE09NA	MUY-GE12NA
Capacity Rated (Minimum~Maximum)	Cooling ❄1	Btu/h	9,000 (3,800 ~ 12,200)	12,000 (3,800 ~ 13,600)
Power consumption Rated (Minimum~Maximum)	Cooling ❄1	W	660 (205~1,200)	960 (205~1,300)
EER ❄1 [SEER] ❄3	Cooling		13.6 [21.0]	12.5 [20.5]
Power supply	V , phase , Hz		208/230 , 1 , 60	
Max. fuse size (time delay)		A	15	
Min. circuit ampacity		A	12	12
Fan Motor (ECM)		F.L.A	0.50	
Compressor	Model		KNB073FQDHC	KNB092FQAHC
		R.L.A	4.9	4.9
		L.R.A	6.1	6.1
	Refrigeration oil	Fl.Oz. (Type)	10.8 (NEO22)	
Refrigerant control			Linear expansion valve	
Sound level ❄1	Cooling	dB(A)	46	49
Defrost method			Reverse Cycle	
Dimensions	W	in.	31-1/2	
	D	in.	11-1/4	
	H	in.	21-5/8	
Weight		lb.	66	77
External finish			Munsell 3Y 7.8/1.1	
Remote controller			Wireless type	
Control voltage (by built-in transformer)		VDC	12 - 24	
Refrigerant piping			Not supplied	
Refrigerant pipe size (Min. wall thickness)	Liquid	in.	1/4 (0.0315)	
	Gas	in.	3/8 (0.0315)	
Connection method	Indoor		Flared	
	Outdoor		Flared	
Between the indoor & outdoor units	Height difference	ft.	40	
	Piping length	ft.	65	
Refrigerant charge (R410A)			1 lb. 12 oz.	2 lb. 9 oz.

NOTE: Test conditions are based on ARI 210/240.

❄1: Rating conditions (Cooling) — Indoor: 80˚FDB, 67˚FWB, Outdoor: 95˚FDB, (75˚FWB) Rated frequency
(Heating) — Indoor: 70˚FDB, 60˚FWB, Outdoor: 47˚FDB, 43˚FWB Rated frequency

❄2: (Heating) — Indoor: 70˚FDB, 60˚FWB, Outdoor: 17˚FDB, 15˚FWB Maximum frequency

Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

MUY-GE15NA-1 MUY-GE18NA-1

Model name			MUY-GE15NA-1	MUY-GE18NA-1
Capacity Rated (Minimum~Maximum)	Cooling ❄1	Btu/h	14,000 (3,100 ~ 18,200)	17,200 (3,700 ~ 18,700)
Power consumption Rated (Minimum~Maximum)	Cooling ❄1	W	1,080 (160~2,000)	1,640 (240~2,070)
EER ❄1 [SEER] ❄3	Cooling		13.0 [21.0]	10.5 [19.2]
Power supply	V , phase , Hz		208/230 , 1 , 60	
Max. fuse size (time delay)		A	15	
Min. circuit ampacity		A	12	14
Fan Motor (ECM)		F.L.A	0.50	0.93
Compressor	Model		SNB130FQBHT	
		R.L.A	6.8	10.0
		L.R.A	8.5	12.5
	Refrigeration oil	Fl.Oz. (Type)	15.2 (NEO22)	
Refrigerant control			Linear expansion valve	
Sound level ❄1	Cooling	dB(A)	49	54
Defrost method			Reverse Cycle	
Dimensions	W	in.	31-1/2	33-1/16
	D	in.	11-1/4	13
	H	in.	21-5/8	33-7/16
Weight		lb.	80	119
External finish			Munsell 3Y 7.8/1.1	
Remote controller			Wireless type	
Control voltage (by built-in transformer)		VDC	12 - 24	
Refrigerant piping			Not supplied	
Refrigerant pipe size (Min. wall thickness)	Liquid	in.	1/4 (0.0315)	
	Gas	in.	3/8 (0.0315)	
Connection method	Indoor		Flared	
	Outdoor		Flared	
Between the indoor & outdoor units	Height difference	ft.	40	50
	Piping length	ft.	65	100
Refrigerant charge (R410A)			2 lb. 9 oz.	3 lb. 7 oz.

NOTE: Test conditions are based on ARI 210/240.

❄1: Rating conditions (Cooling) — Indoor: 80˚FDB, 67˚FWB, Outdoor: 95˚FDB, (75˚FWB) Rated frequency
(Heating) — Indoor: 70˚FDB, 60˚FWB, Outdoor: 47˚FDB, 43˚FWB Rated frequency
❄2: (Heating) — Indoor: 70˚FDB, 60˚FWB, Outdoor: 17˚FDB, 15˚FWB Maximum frequency

Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

MUY-GE24NA

Model name			**MUY-GE24NA**
Capacity Rated (Minimum~Maximum)	Cooling ❄1	Btu/h	22,500 (8,200 ~ 31,400)
Power consumption Rated (Minimum~Maximum)	Cooling ❄1	W	1,800 (570 ~ 3,580)
EER ❄1 [SEER] ❄3	Cooling		12.5 [19.0]
Power supply	V , phase , Hz		208/230 , 1 , 60
Max. fuse size (time delay)		A	20
Min. circuit ampacity		A	17.1
Fan Motor (ECM)		F.L.A	0.93
Compressor	Model		SNB172FQKMT
		R.L.A	12.9
		L.R.A	16.1
	Refrigeration oil	Fl.Oz. (Type)	29.4 (FV50S)
Refrigerant control			Linear expansion valve
Sound level ❄1	Cooling	dB(A)	55
Defrost method			Reverse Cycle
Dimensions	W	in.	33-1/16
	D	in.	13
	H	in.	34-5/8
Weight		lb.	119
External finish			Munsell 3Y 7.8/1.1
Remote controller			Wireless type
Control voltage (by built-in transformer)		VDC	12 - 24
Refrigerant piping			Not supplied
Refrigerant pipe size (Min. wall thickness)	Liquid	in.	3/8 (0.0315)
	Gas	in.	5/8 (0.0315)
Connection method	Indoor		Flared
	Outdoor		Flared
Between the indoor & outdoor units	Height difference	ft.	50
	Piping length	ft.	100
Refrigerant charge (R410A)			4 lb. 3 oz.

NOTE: Test conditions are based on ARI 210/240.

❄1: Rating conditions (Cooling) — Indoor: 80˚FDB, 67˚FWB, Outdoor: 95˚FDB, (75˚FWB) Rated frequency
(Heating) — Indoor: 70˚FDB, 60˚FWB, Outdoor: 47˚FDB, 43˚FWB Rated frequency
❄2: (Heating) — Indoor: 70˚FDB, 60˚FWB, Outdoor: 17˚FDB, 15˚FWB Maximum frequency

Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

Efficiency Ratings

Outdoor Unit	Indoor Unit	SEER	EER	Energy Star	Tax Credit	Most Efficient
WALL-MOUNT COOLING ONLY						
MUY-GE09NA	MSY-GE09NA-8	21	13.6	Yes	Yes	Yes
MUY-GE12NA	MSY-GE12NA-8	20.5	12.5	Yes		Yes
MUY-GE15NA-1	MSY-GE15NA-8	21	13	Yes	Yes	Yes
MUY-GE18NA-1	MSY-GE18NA-8	19.2	10.5	Yes		
MUY-GE24NA	MSY-GE24NA	19	12.5			
Note: Efficiency values based on AHRI 210/240 test method.						

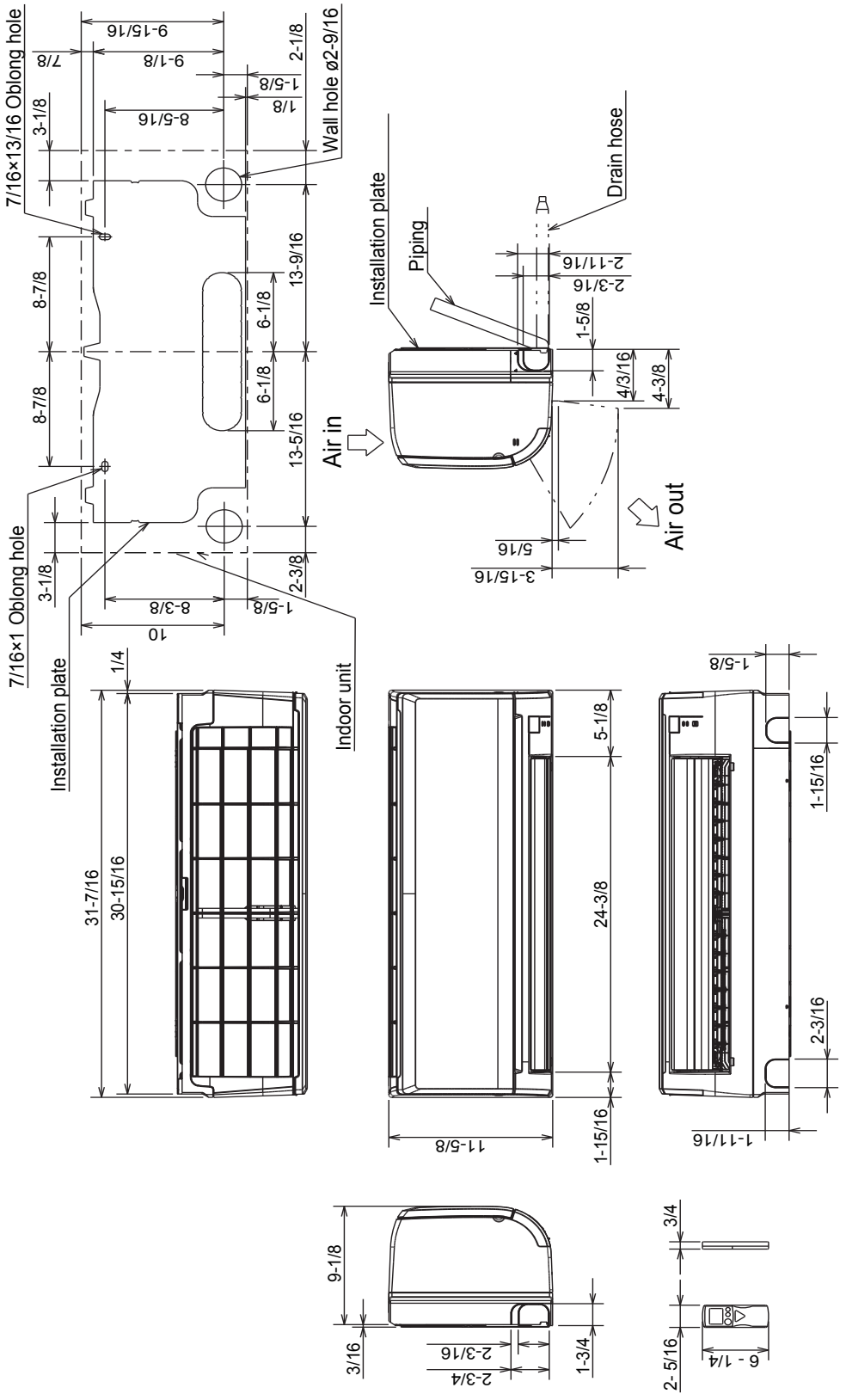
Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

3-2. EXTERNAL DIMENSIONS

MSY-GE09NA-8 MSY-GE12NA-8 MSY-GE15NA-8 MSY-GE18NA-8

Unit: inch



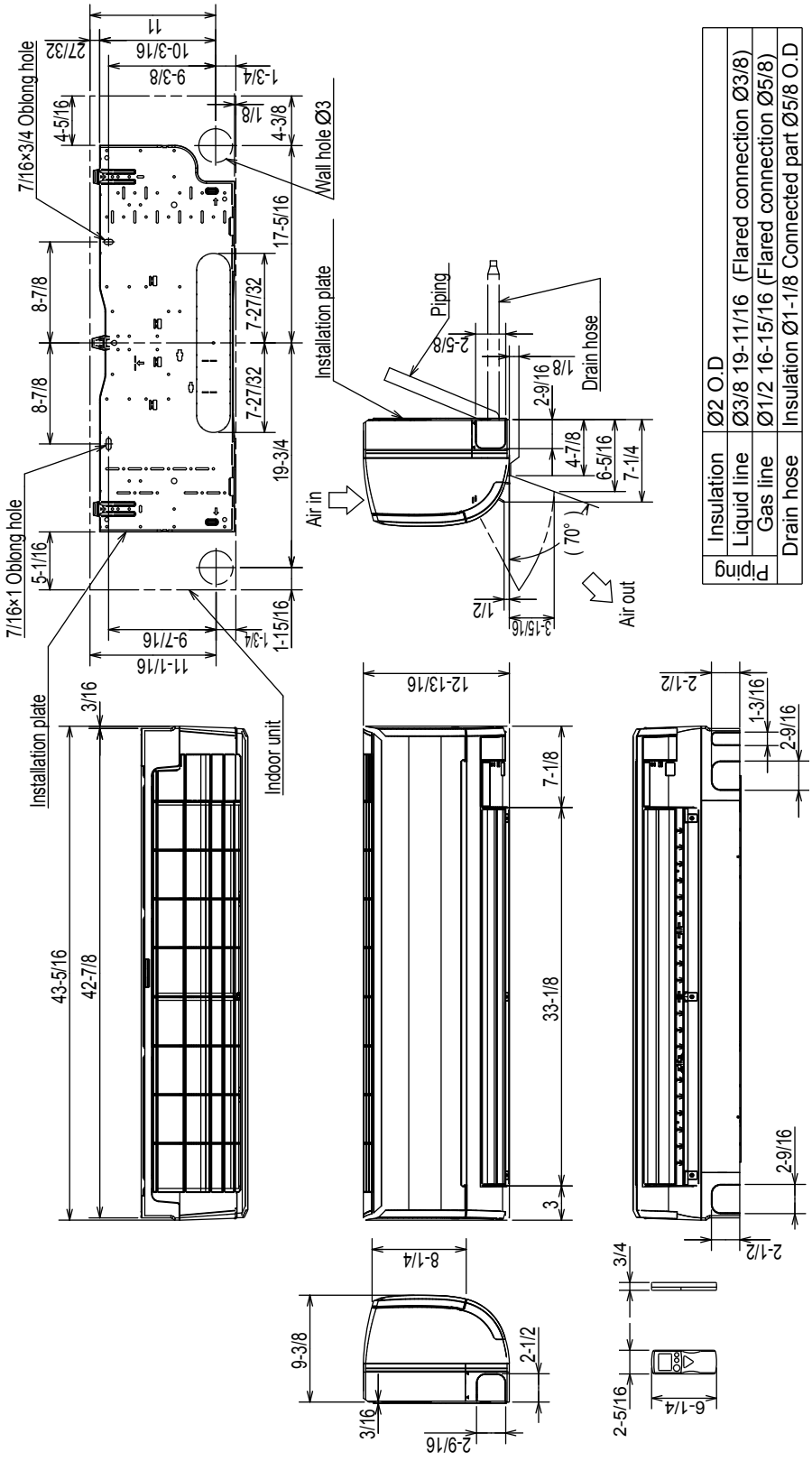
Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

3-2. EXTERNAL DIMENSIONS

MSY-GE24NA

Unit: inch



Piping		
Insulation	Ø2 O.D	
Liquid line	Ø3/8	19-11/16 (Flared connection Ø3/8)
Gas line	Ø1/2	16-15/16 (Flared connection Ø5/8)
Drain hose	Insulation Ø1-1/8	Connected part Ø5/8 O.D

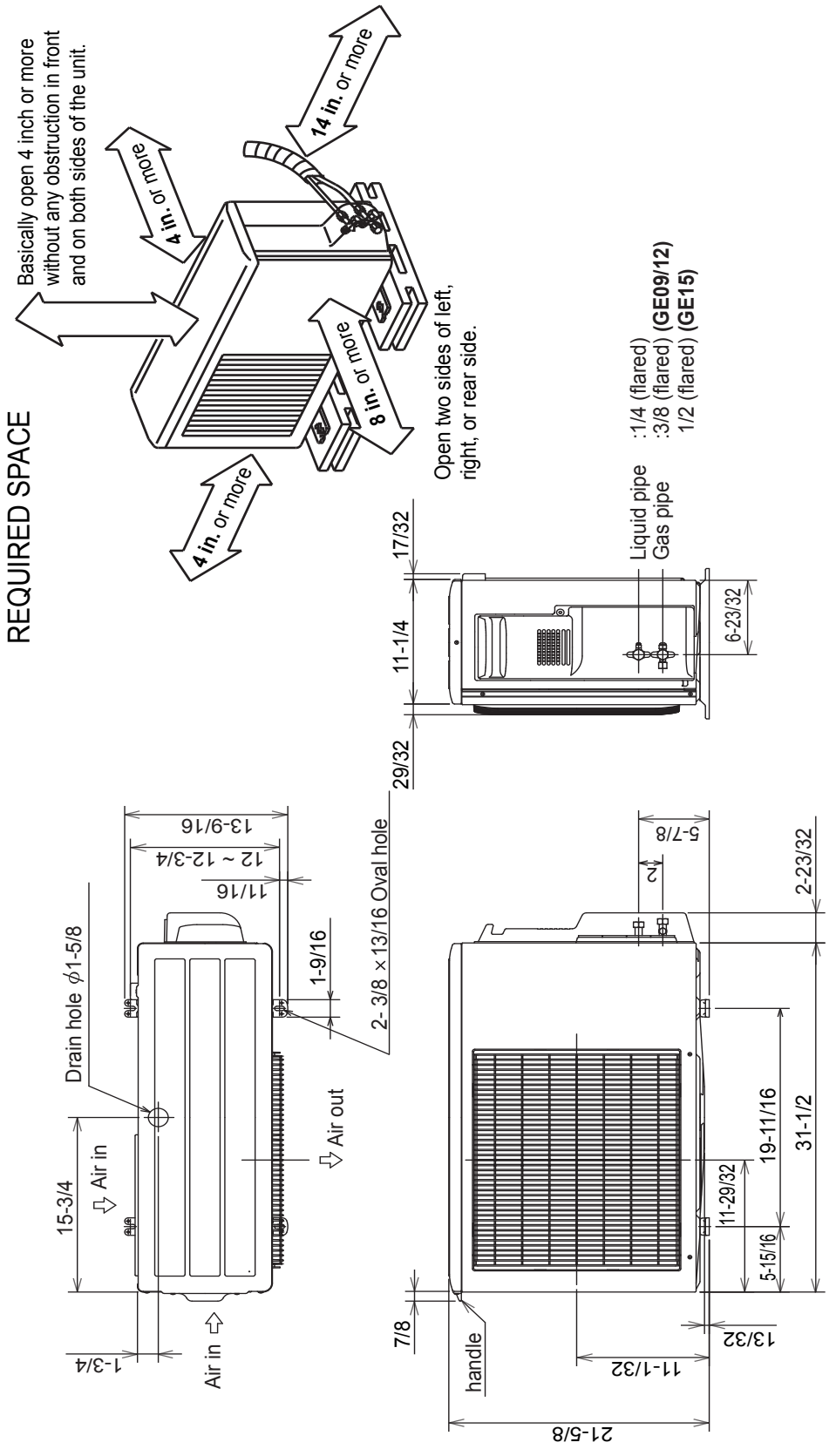
Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

3-2. EXTERNAL DIMENSIONS

MUY-GE09NA MUY-GE12NA MUY-GE15NA-1

Unit: inch



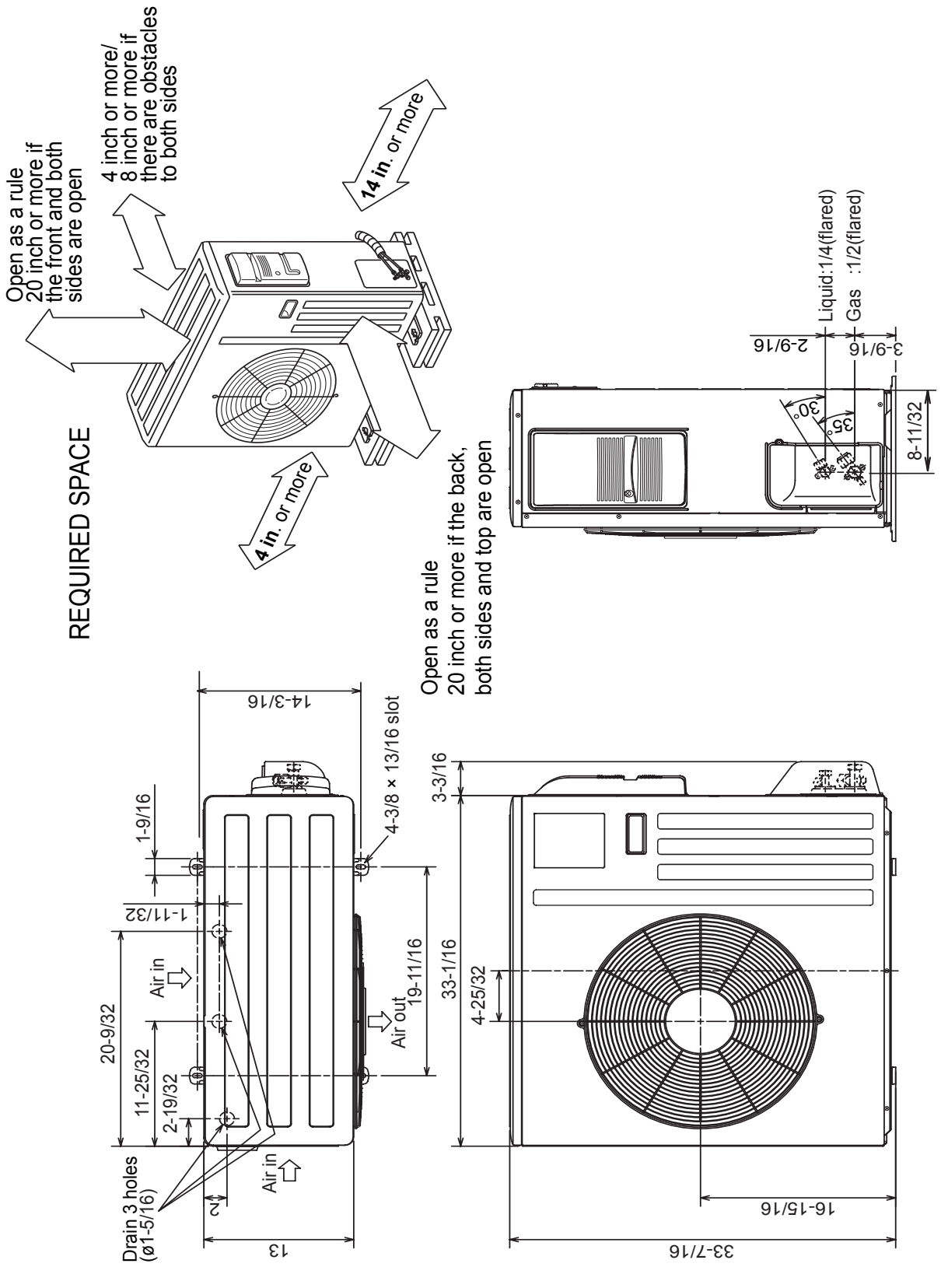
Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

3-2. EXTERNAL DIMENSIONS

MUY-GE18NA-1

Unit: inch



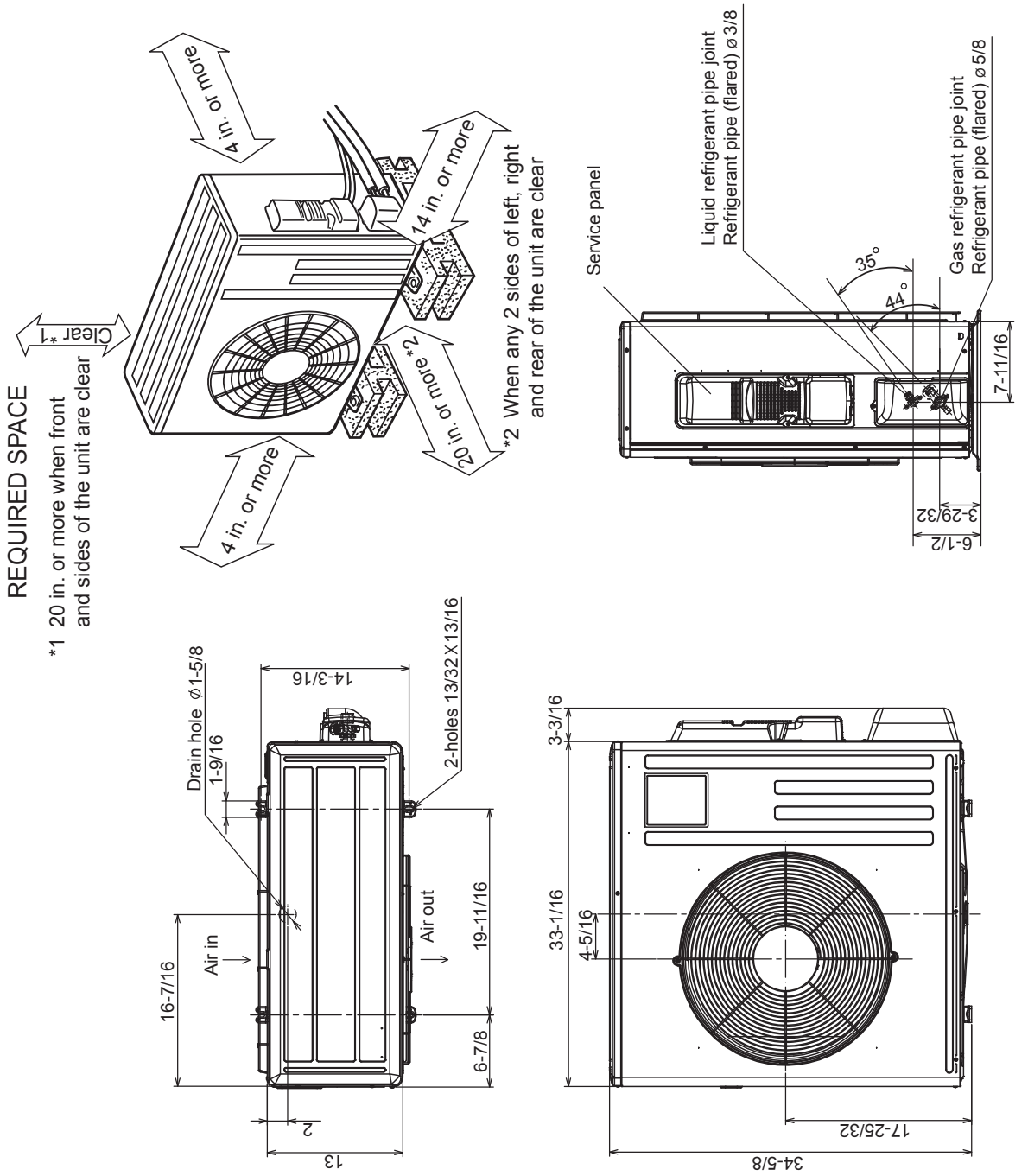
Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

3-2. EXTERNAL DIMENSIONS

MUY-GE24NA

Unit: inch



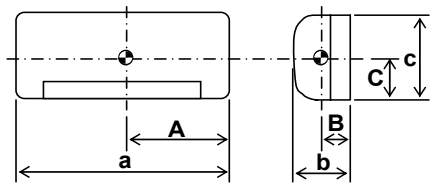
Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

3-3. CENTER OF GRAVITY

MSY-GE09NA-8 MSY-GE12NA-8 MSY-GE15NA-8 MSY-GE18NA-8 MSY-GE24NA

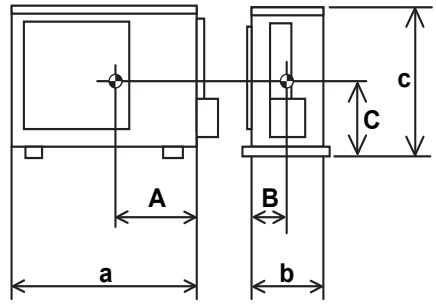
Unit: inch(mm)



Model name	A	B	C	a	b	c
MSY-GE09NA-8 MSY-GE12NA-8 MSY-GE15NA-8 MSY-GE18NA-8	13-7/16 (340)	3-3/4 (95)	7-1/2 (190)	31-7/16 (798)	9-1/8 (232)	11-5/8 (295)
MSY-GE24NA	17-7/16 (443)	3-55/64 (98)	5-35/64 (141)	43-5/16 (1100)	9-3/8 (238)	12-13/16 (325)

MUY-GE09NA MUY-GE12NA MUY-GE15NA-1 MUY-GE18NA-1 MUY-GE24NA

Unit: inch(mm)

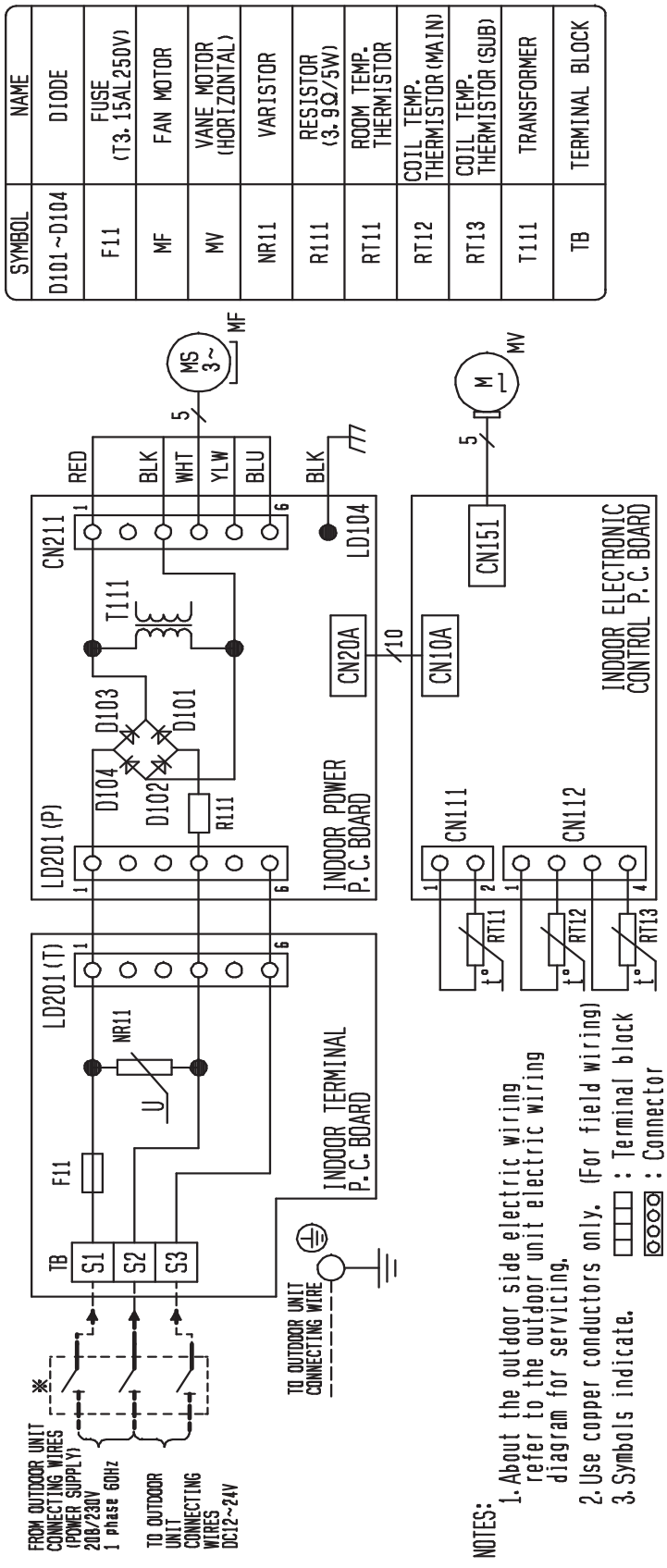


Model name	A	B	C	a	b	c
MUY-GE09NA MUY-GE12NA MUY-GE15NA-1	11-1/16 (280)	5-9/16 (140)	9-1/2 (240)	31-1/2 (800)	11-1/4 (285)	21-5/8 (550)
MUY-GE18NA-1	11-13/16 (300)	5-7/8 (150)	13-3/8 (340)	33-1/16 (840)	13 (330)	33-7/16 (850)
MUY-GE24NA	12-5/8 (320)	6-7/16 (163)	15-3/4 (400)	33-2/16 (840)	13 (330)	34-11/16 (880)

Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

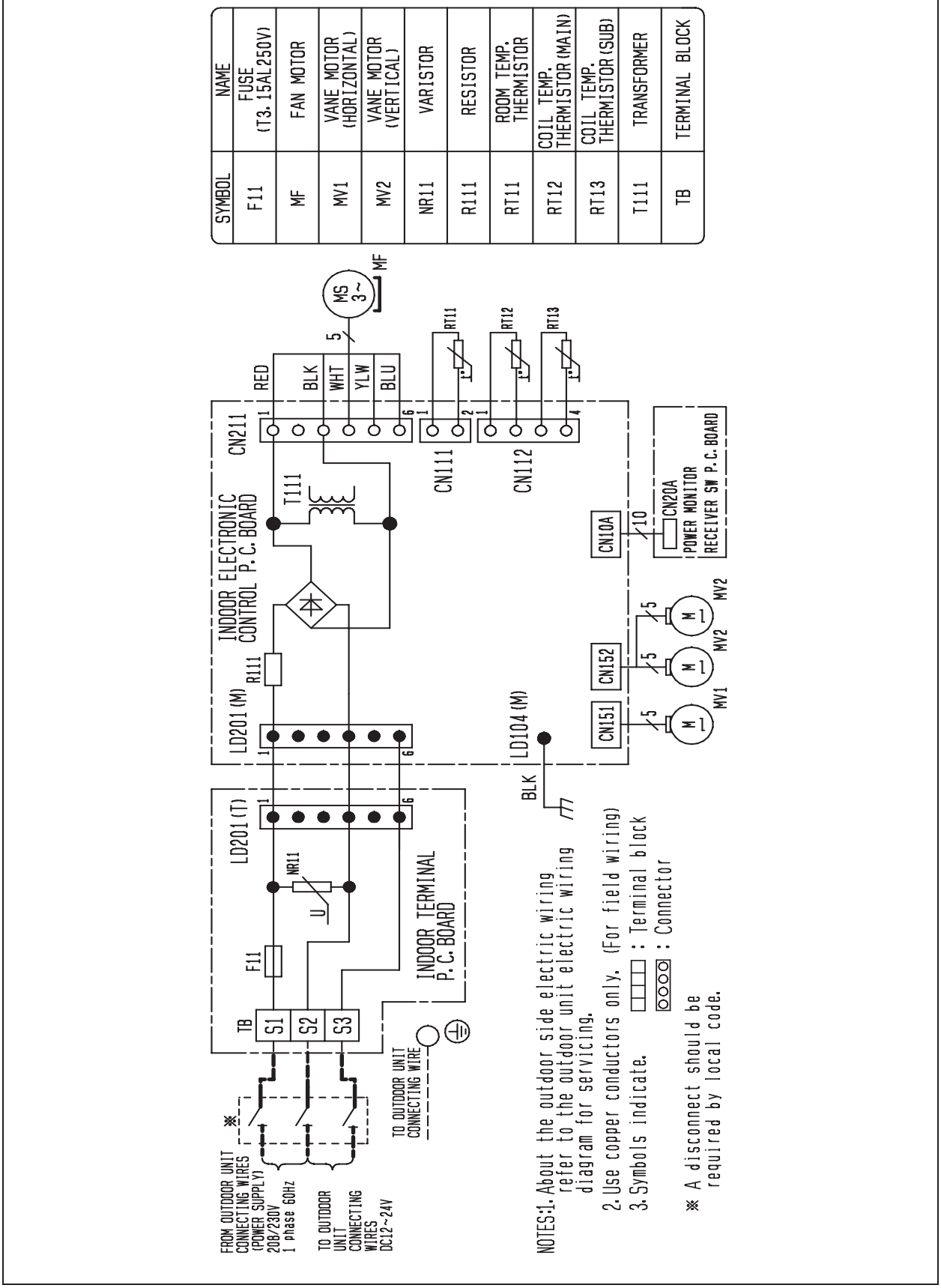
MSY-GE09NA-8 MSY-GE12NA-8 MSY-GE15NA-8 MSY-GE18NA-8



Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

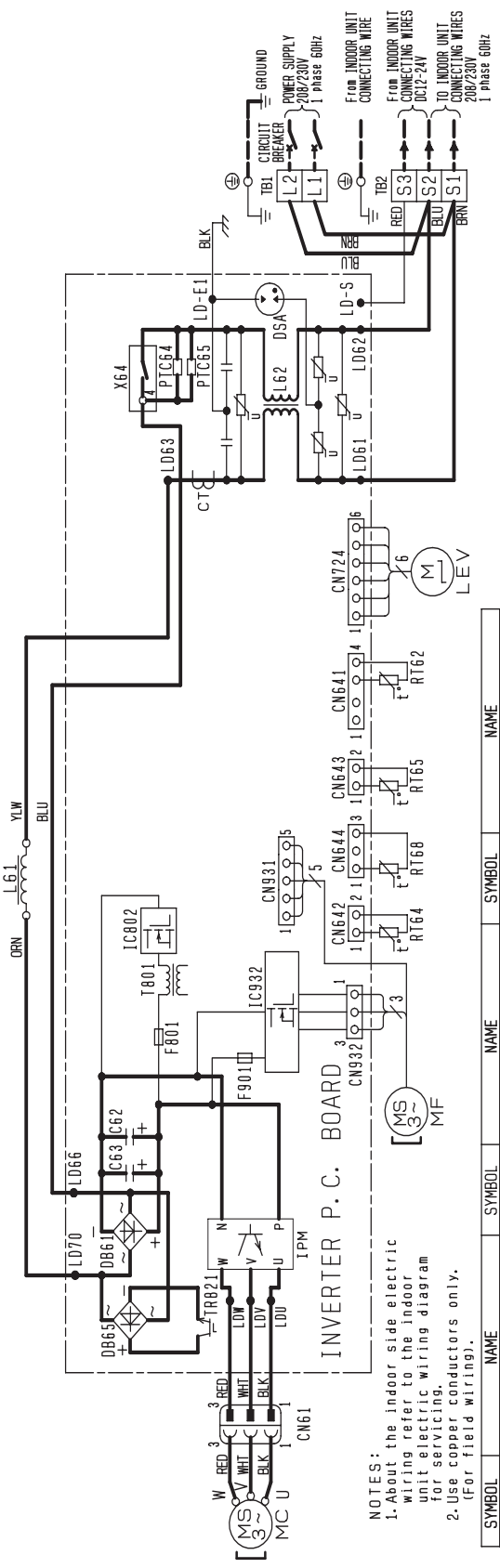
MSY-GE24NA



Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

MUY-GE09NA MUY-GE12NA



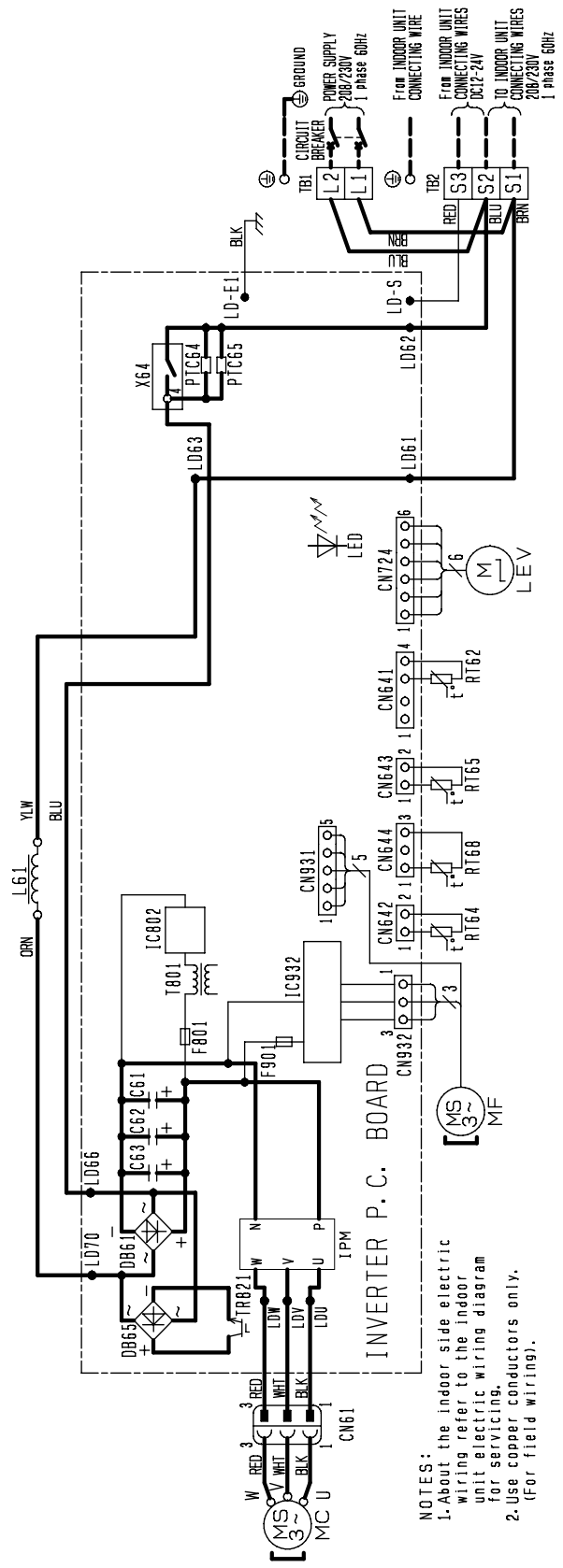
NOTES:
1. About the indoor side electric wiring refer to the indoor unit electric wiring diagram for servicing.
2. Use copper conductors only. (For field wiring).

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CT	CURRENT TRANSFORMER	L62	CMC COIL	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR.
C62, C63	SMOOTHING CAPACITOR	LEV	EXPANSION VALVE COIL		
DB61, DB65	DIODE MODULE	MC	COMPRESSOR	TB1, TB2	TERMINAL BLOCK
DSA	SURGE ABSORBER	MF	FAN MOTOR	TR821	SWITCHING POWER TRANSISTOR
F801, F901	FUSE (T3.15AL250V)	PTC64, PTC65	CIRCUIT PROTECTION	T801	TRANSFORMER
IC802	INTELLIGENT POWER DEVICE	RT62	DISCHARGE TEMP. THERMISTOR	X64	RELAY
IPM, IC932	INTELLIGENT POWER MODULE	RT64	FIN TEMP. THERMISTOR		
L61	REACTOR	RT65	AMBIENT TEMP. THERMISTOR		

Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

MUY-GE15NA-1



NOTES:
1. About the indoor side electric wiring refer to the indoor unit electric wiring diagram for servicing.
2. Use copper conductors only. (For field wiring).

SYMBOL	NAME
C61, C62, C63	SMOOTHING CAPACITOR
DB61, DB65	DIODE MODULE
F801, F901	FUSE (T3.15AL250V)
IC802	POWER DEVICE
IPM, IC932	POWER MODULE
LED	LED
LEV	EXPANSION VALVE COIL
L61	REACTOR

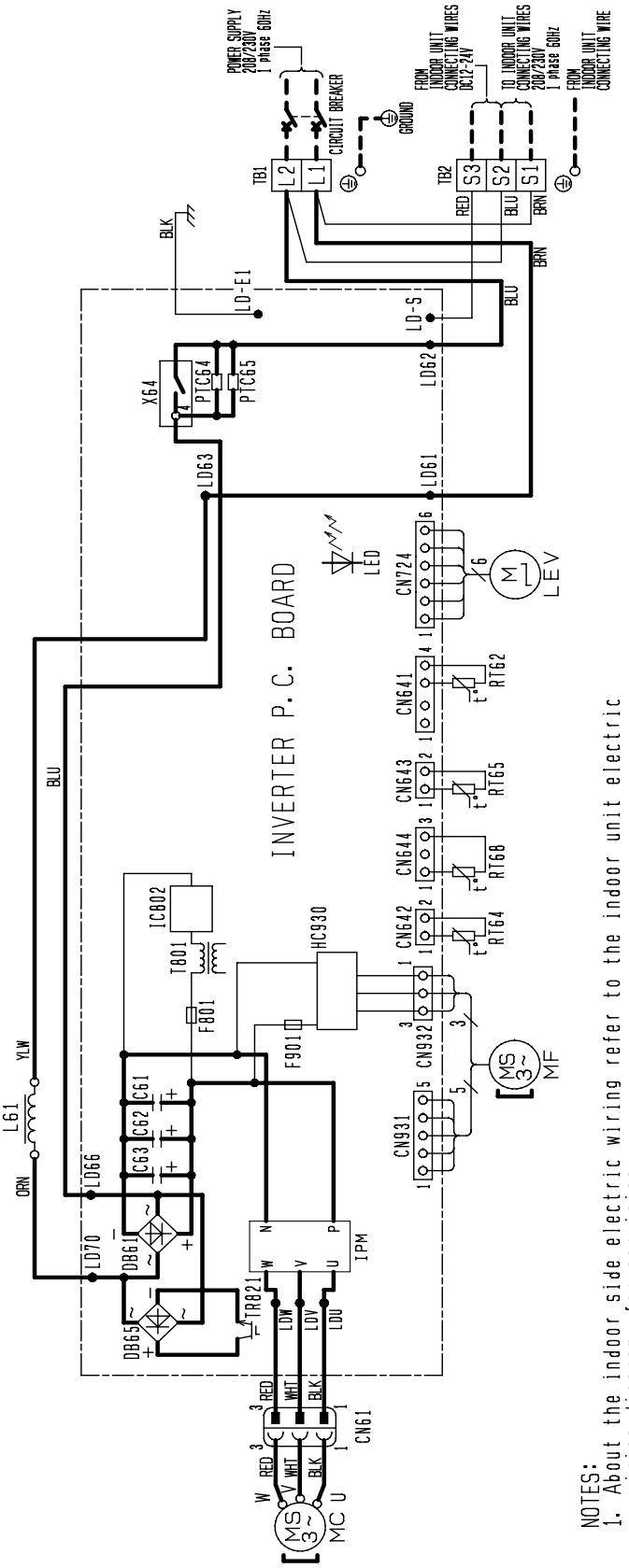
SYMBOL	NAME
MC	COMPRESSOR
MF	FAN MOTOR
PTC64, PTC65	CIRCUIT PROTECTION
RT62	DISCHARGE TEMP. THERMISTOR
RT64	FIN TEMP. THERMISTOR
RT65	AMBIENT TEMP. THERMISTOR
RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR.

SYMBOL	NAME
TB1, TB2	TERMINAL BLOCK
TR821	SWITCHING POWER TRANSISTOR
T801	TRANSFORMER
X64	RELAY

Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

MUY-GE18NA-1



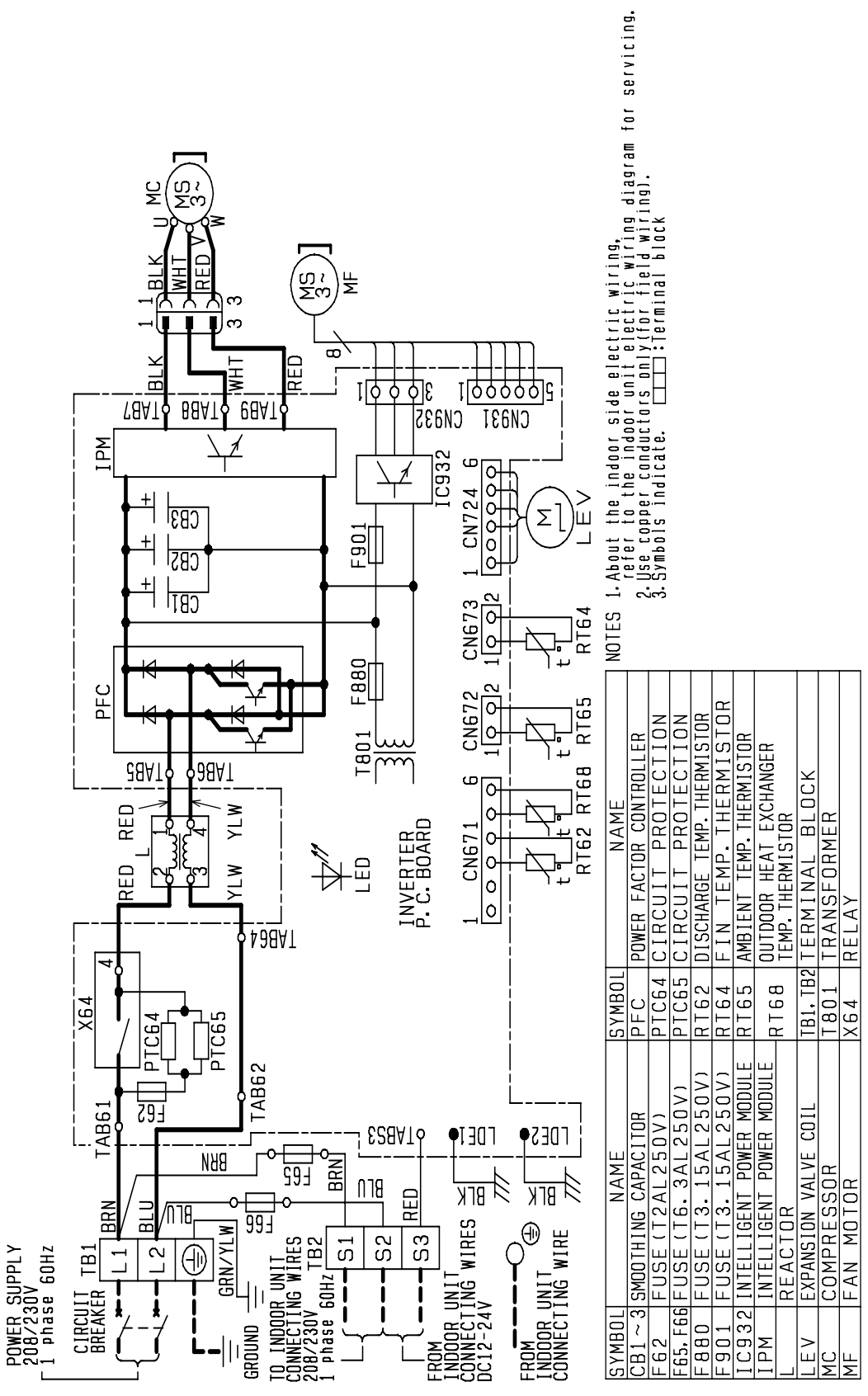
NOTES:
1. About the indoor side electric wiring refer to the indoor unit electric wiring diagram for servicing.
2. Use copper conductors only. (For field wiring).

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
C61, C62, C63	SMOOTHING CAPACITOR	MC	COMPRESSOR	TB1, TB2	TERMINAL BLOCK
DB61, DB65	DIODE MODULE	MF	FAN MOTOR	TR821	SWITCHING POWER TRANSISTOR
F801, F901	FUSE (T3.15AL250V)	PTC64, PTC65	CIRCUIT PROTECTION	T801	TRANSFORMER
HC930, IPM	POWER MODULE	RT62	DISCHARGE TEMP. THERMISTOR	X64	RELAY
IC802	POWER DEVICE	RT64	FIN TEMP. THERMISTOR		
LED	LED	RT65	AMBIENT TEMP. THERMISTOR		
LEV	EXPANSION VALVE COIL	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR.		
L61	REACTOR				

Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

MUY-GE24NA



NOTES 1. About the indoor side electric wiring, refer to the indoor unit electric wiring diagram for servicing.
2. Use copper conductors only(for field wiring).
3. Symbols indicate. □□□ :Terminal block

SYMBOL	NAME
CB1~3	SMOOTHING CAPACITOR
F62	FUSE(T2AL250V)
F65,F66	FUSE(T6.3AL250V)
F880	FUSE(T3.15AL250V)
F901	FUSE(T3.15AL250V)
IC932	INTELLIGENT POWER MODULE
IPM	INTELLIGENT POWER MODULE
L	REACTOR
LEV	EXPANSION VALVE COIL
MC	COMPRESSOR
MF	FAN MOTOR

SYMBOL	NAME
PFC	POWER FACTOR CONTROLLER
PTC64	CIRCUIT PROTECTION
PTC65	CIRCUIT PROTECTION
RT62	DISCHARGE TEMP.THERMISTOR
RT64	FIN TEMP.THERMISTOR
RT65	AMBIENT TEMP.THERMISTOR
RT68	OUTDOOR HEAT EXCHANGER TEMP.THERMISTOR
TB1,TB2	TERMINAL BLOCK
T801	TRANSFORMER
X64	RELAY

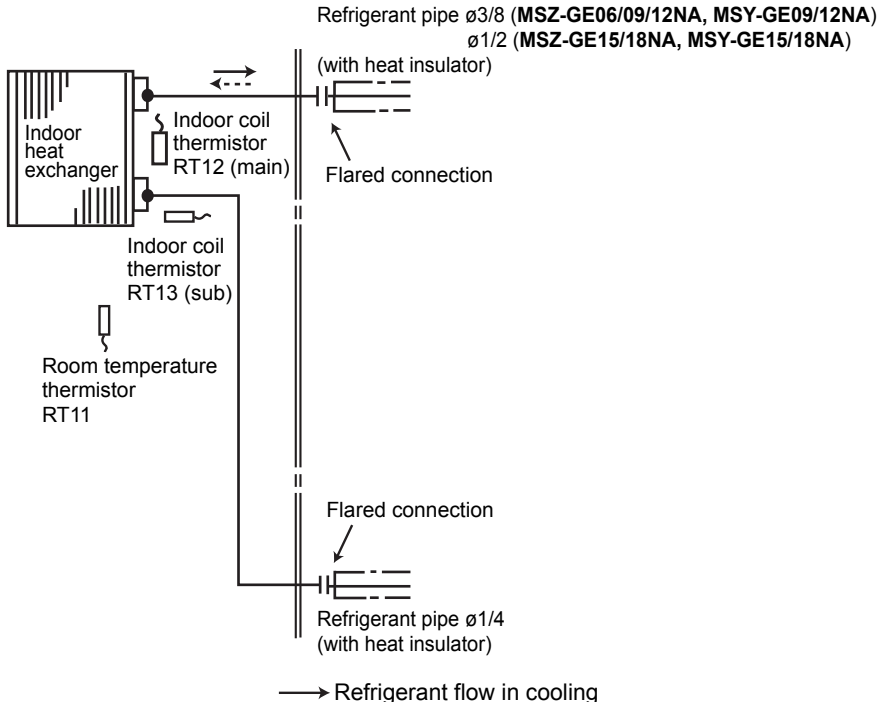
Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

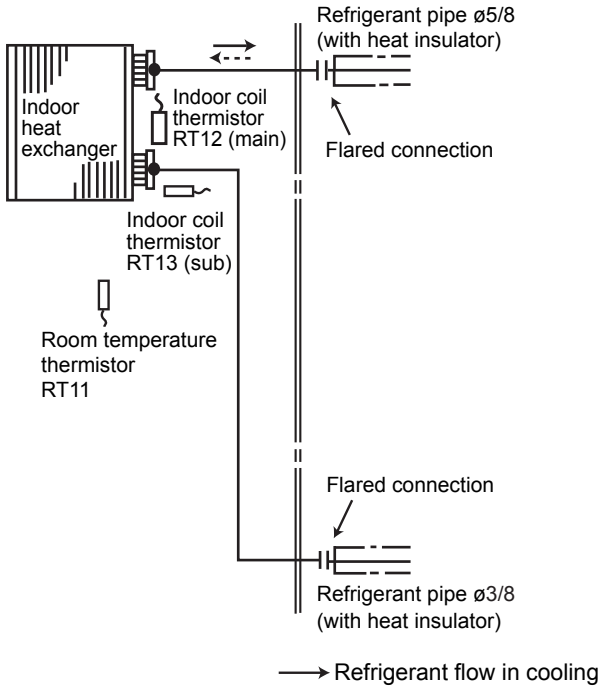
3-5. REFRIGERANT SYSTEM DIAGRAMS

MSY-GE09NA-8 MSY-GE12NA-8 MSY-GE15NA-8 MSY-GE18NA-8

Unit: inch



MSY-GE24NA

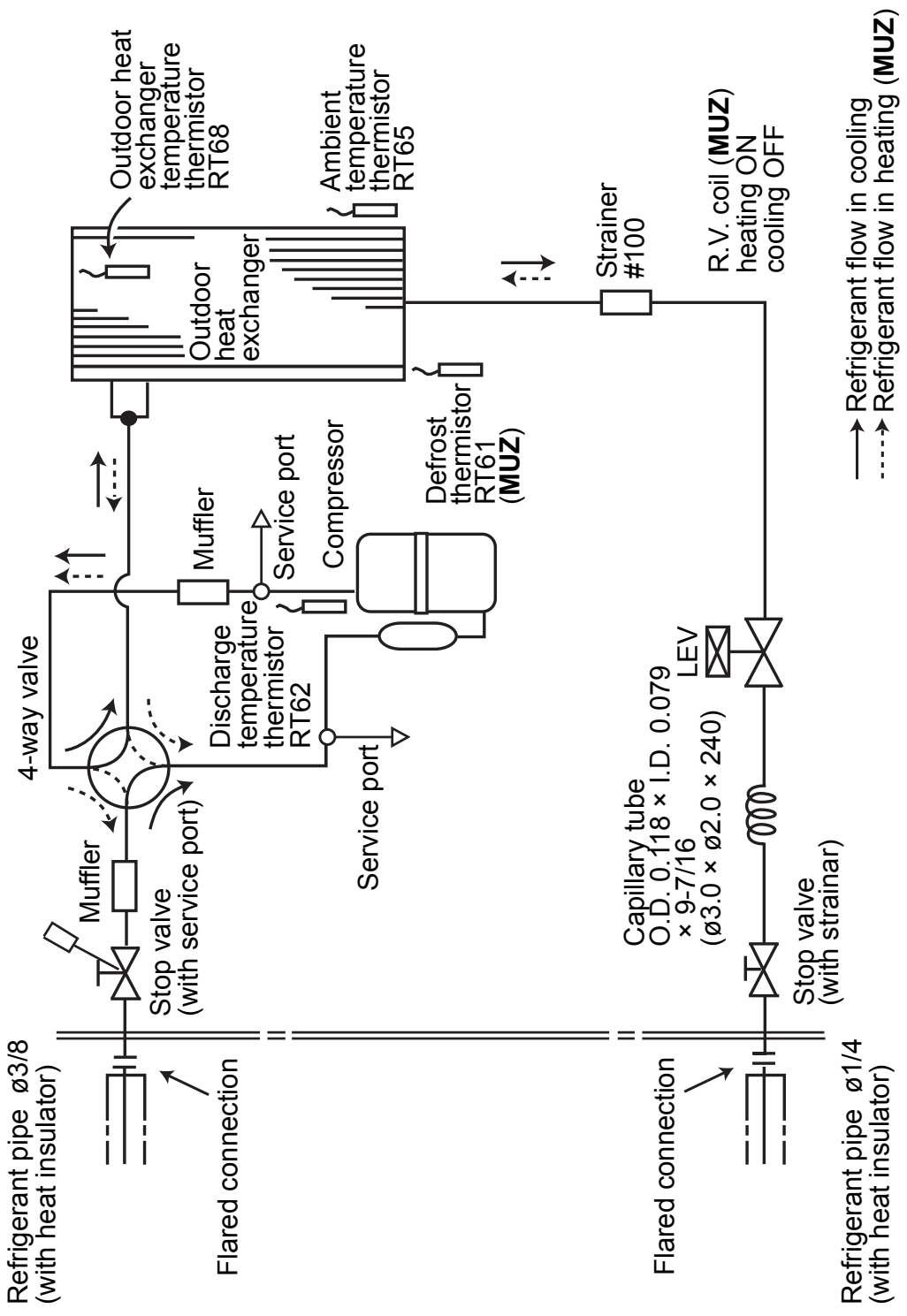


Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

MUY-GE09NA

Unit: inch

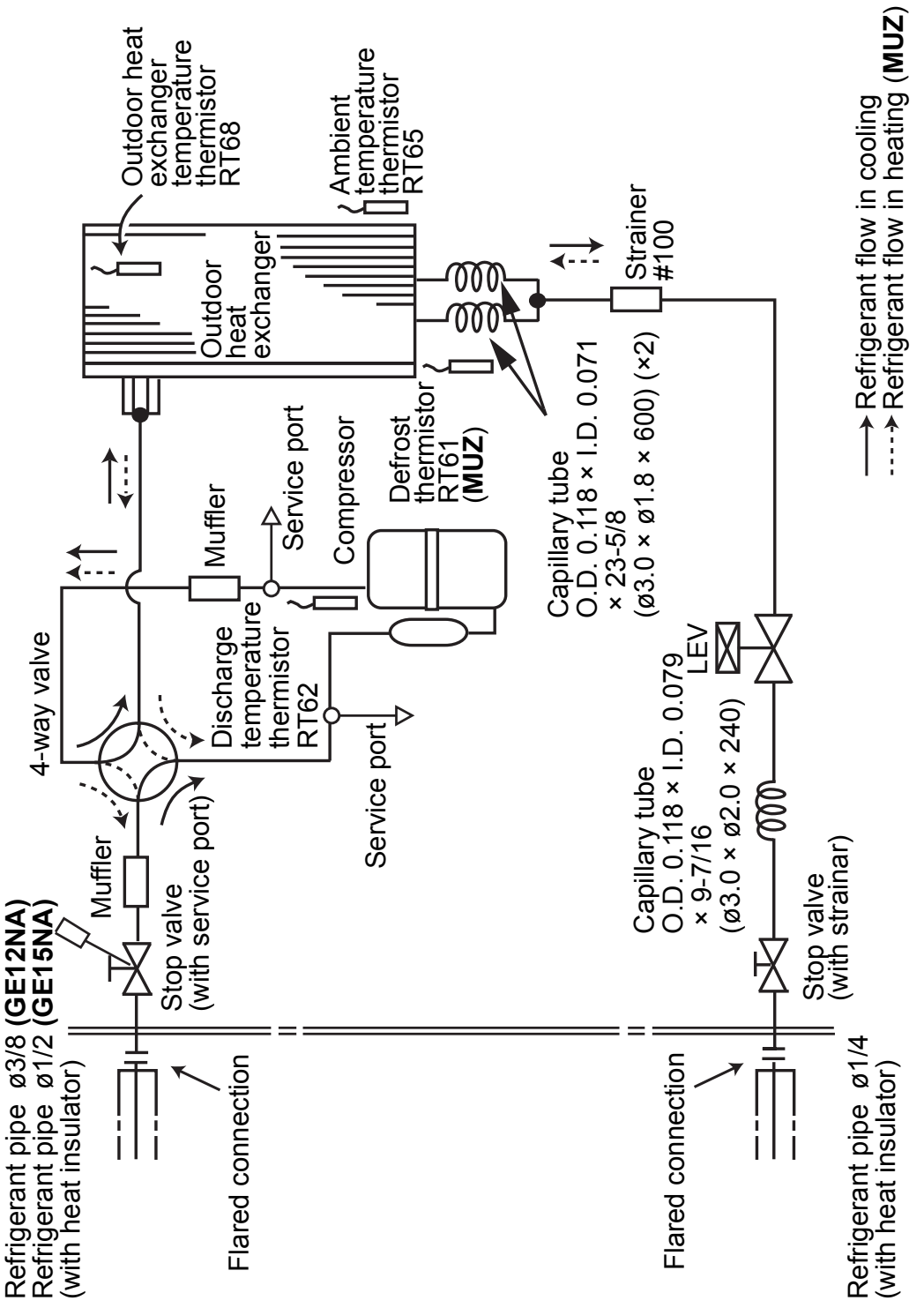


Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

MUY-GE12NA MUY-GE15NA-1

Unit: inch

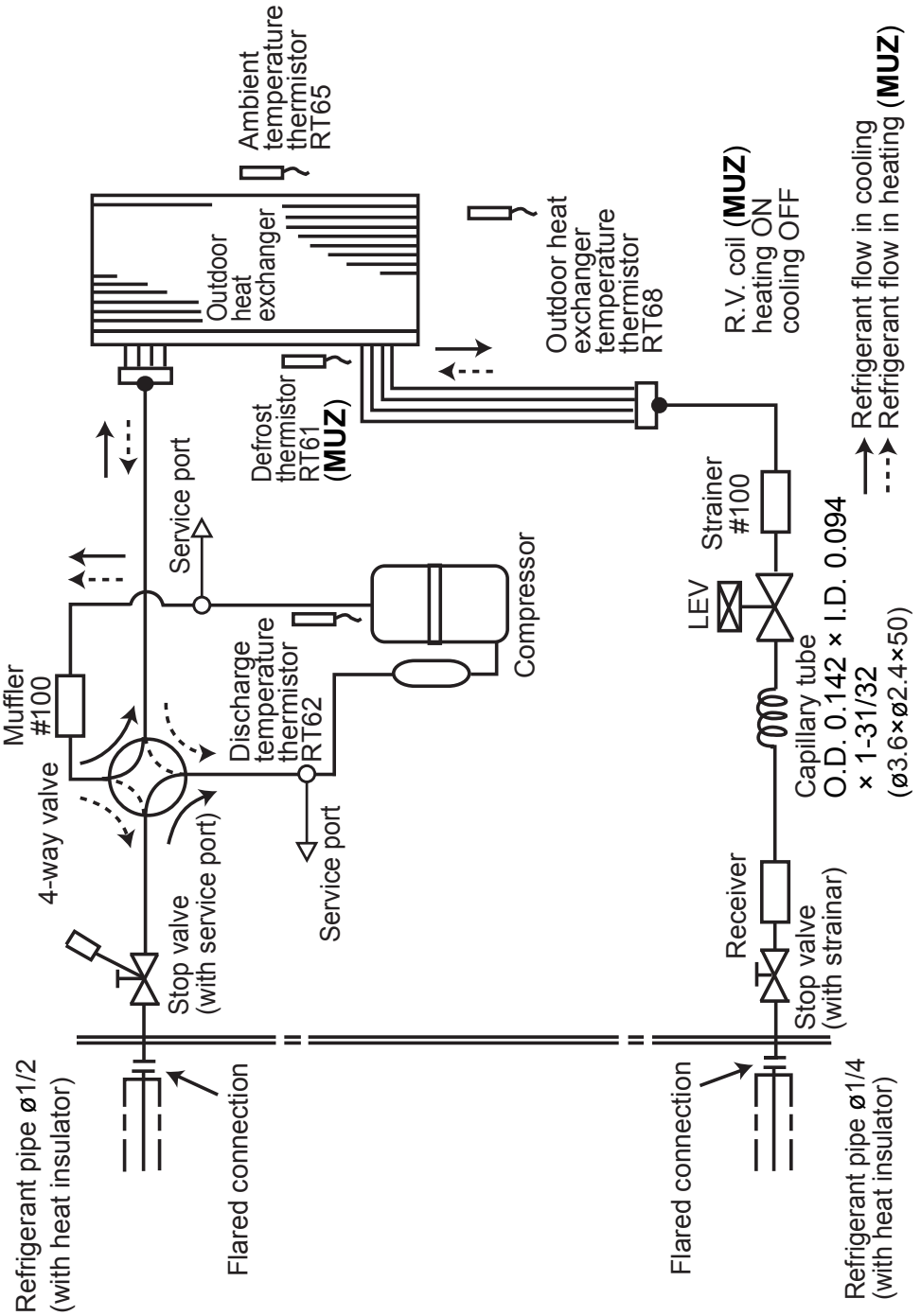


Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

MUY-GE18NA-1

Unit: inch

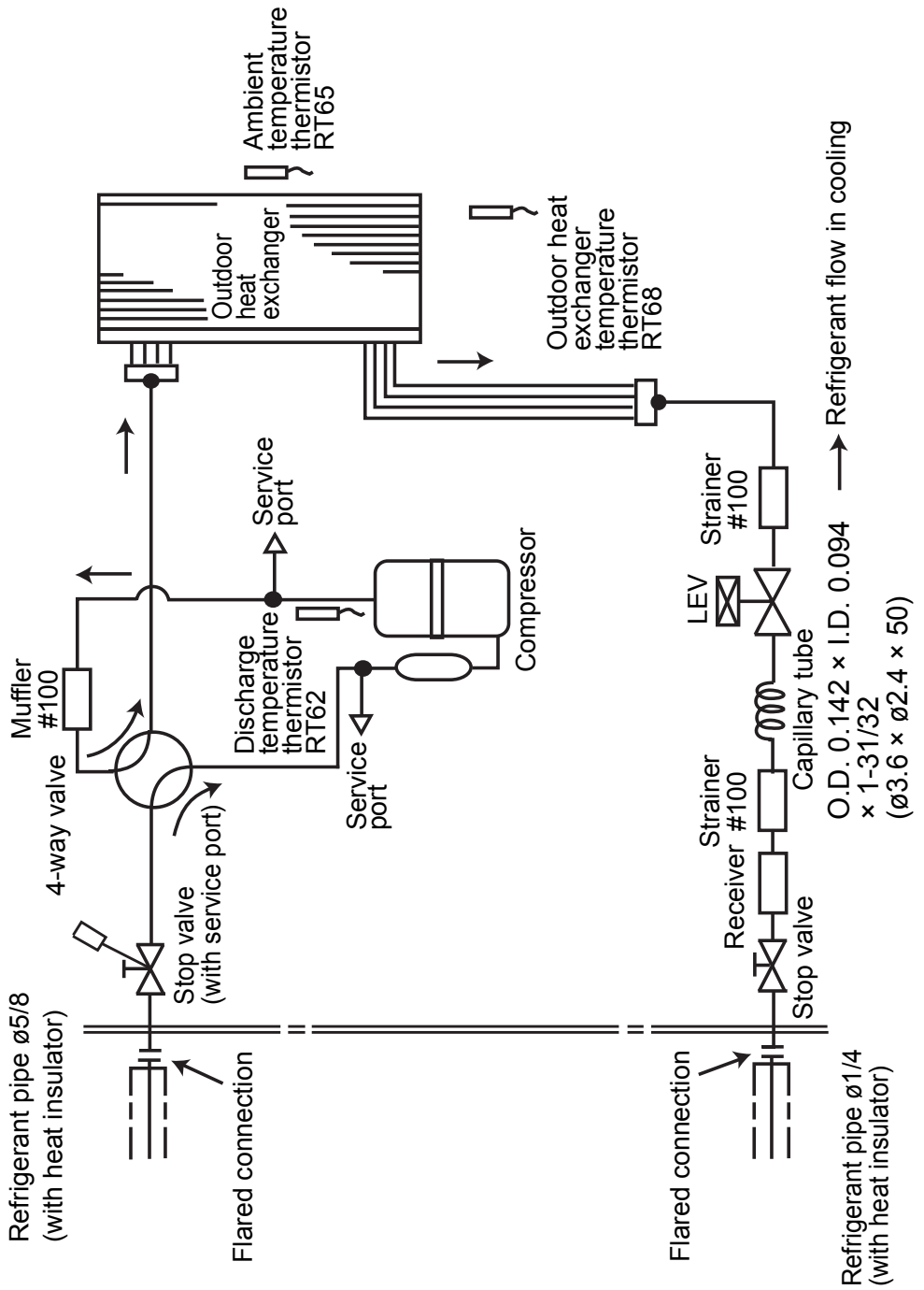


Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

MUY-GE24NA

Unit: inch



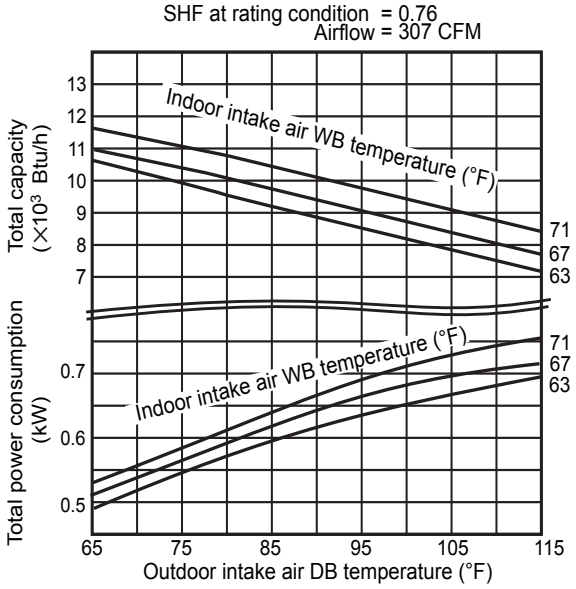
Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

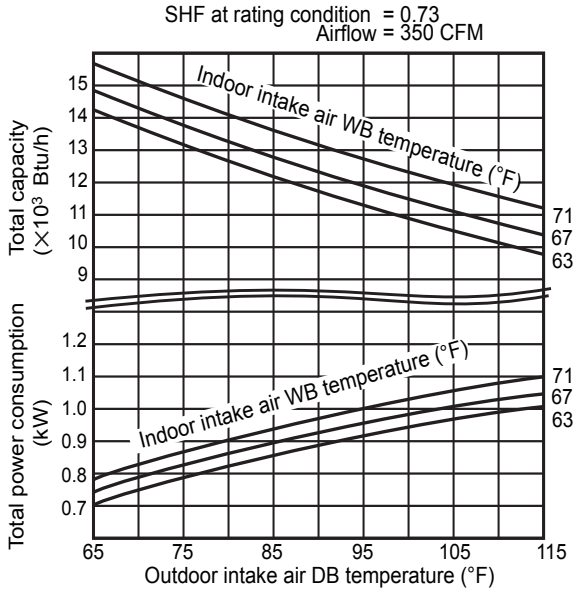
3-6. CAPACITY CORRECTION CURVE BY TEMPERATURE

(1) Indoor Unit

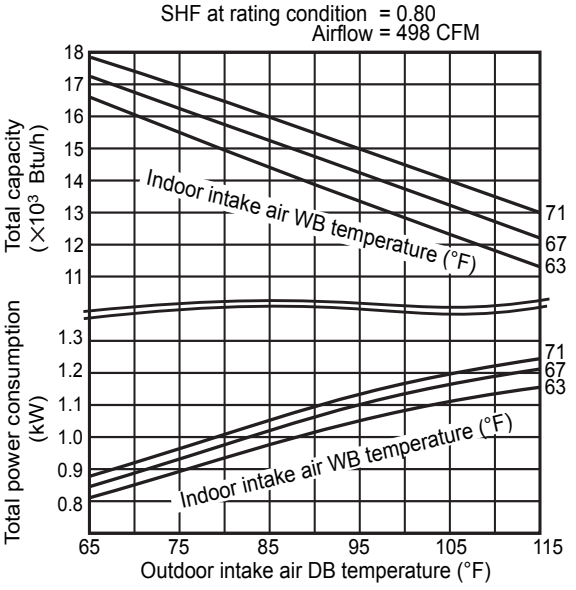
MUY-GE09NA



MUY-GE12NA



MUY-GE15NA-1

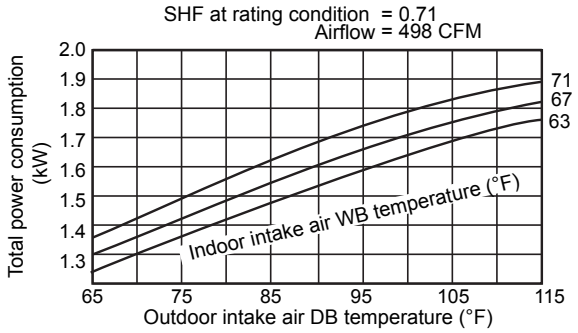


Due to continuing improvement, above specification may be subject to change without notice.

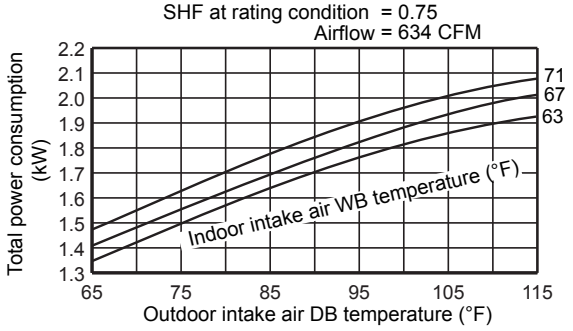
© 2014 Mitsubishi Electric US, Inc.

(2) Outdoor Unit

MUY-GE18NA



MUY-GE24NA



Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

MUY-GE09NA MUY-GE12NA MUY-GE15NA-1 MUY-GE18NA-1

(1) COOLING CAPACITY

Model	Indoor air	Outdoor intake air DB temperature (˚F)															
	IWB (˚F)	75			85			95			105			115			
		TC	SHC	TPC	TC	SHC	TPC	TC	SHC	TPC	TC	SHC	TPC	TC	SHC	TPC
MUY-GE09NA	71	11.0	7.6	0.59	10.3	7.1	0.64	9.7	6.6	0.69	9.0	6.2	0.73	8.3	5.7	0.76
	67	10.4	8.6	0.55	9.7	8.0	0.61	9.0	7.4	0.66	8.4	6.9	0.70	7.7	6.3	0.73
	63	9.8	9.4	0.53	9.1	8.7	0.58	8.5	8.1	0.63	7.7	7.3	0.67	7.0	6.7	0.70
MUY-GE12NA	71	14.7	8.9	0.85	13.7	8.3	0.94	12.9	7.8	1.01	12.0	7.3	1.06	11.0	6.7	1.10
	67	13.9	10.3	0.81	13.0	9.6	0.89	12.0	8.9	0.96	11.2	8.3	1.02	10.3	7.6	1.07
	63	13.1	11.4	0.77	12.1	10.6	0.85	11.3	9.9	0.92	10.3	9.0	0.98	9.4	8.2	1.02
MUY-GE15NA-1	71	17.2	11.4	0.96	16.0	10.7	1.05	15.1	10.0	1.13	14.0	9.3	1.19	12.9	8.6	1.24
	67	16.2	13.0	0.91	15.1	12.1	1.00	14.0	11.2	1.08	13.0	10.4	1.14	12.0	9.6	1.20
	63	15.3	14.2	0.86	14.1	13.2	0.96	13.2	12.3	1.03	12.0	11.2	1.10	10.9	10.2	1.14
MUY-GE18NA-1	71	21.1	12.2	1.46	19.7	11.4	1.60	18.5	10.7	1.72	17.2	9.9	1.81	15.8	9.1	1.89
	67	20.0	14.2	1.38	18.6	13.2	1.52	17.2	12.2	1.64	16.0	11.4	1.74	14.7	10.4	1.82
	63	18.7	15.8	1.31	17.4	14.7	1.45	16.2	13.6	1.57	14.7	12.4	1.67	13.4	11.3	1.74

NOTE: 1. IWB: Intake air wet-bulb temperature
TC: Total Capacity (×10^{3}Btu/h)
SHC: Sensible Heat Capacity (×10^{3}Btu/h)
TPC: Total Power Consumption (kW)
2. SHC is based on 80˚F of indoor Intake air DB temperature.

Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

3-8. CAPACITY CORRECTION CURVE BY REFRIGERANT PIPING LENGTH

DUE TO CONTINUING RESEARCH AND PRODUCT IMPROVEMENT, SPECIFICATIONS AND DATA ARE STILL UNDER REVIEW

Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

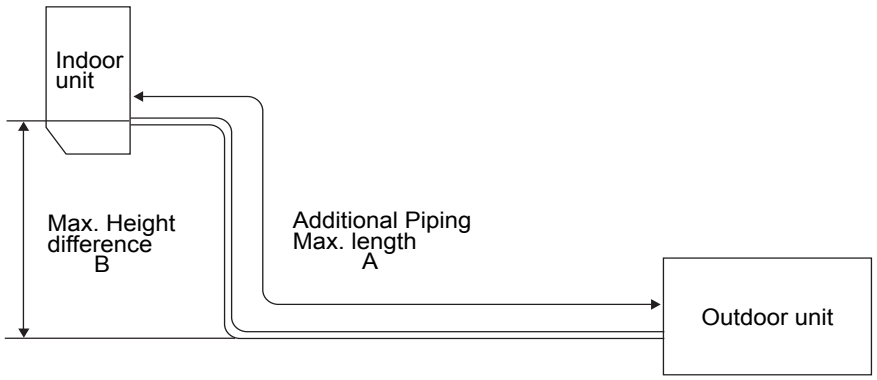
3-9. CAPACITY CORRECTION TABLE BY REFRIGERANT PIPING LENGTH

(1) Cooling capacity correction

Refrigerant piping length (one way: ft.)				
	25 (std.)	40	65	100
MUY-GE09NA MUY-GE12NA MUY-GE15NA-1 MUY-GE18NA-1	1.0	0.954	0.878	-
MUY-GE24NA	1.0	0.954	0.878	0.771

(2) Maximum refrigerant piping length & maximum height difference

Model	Refrigerant piping: ft		Piping size: in.	
	Additional piping Max. length A	Additional piping Max. height B	Gas	Liquid
			Outside diameter	Outside diameter
MUY-GE09NA	65	40	ϕ3/8	ϕ1/4
MUY-GE12NA MUY-GE15NA-1	65	40	ϕ1/2	ϕ1/4
MUY-GE18NA-1	100	50	ϕ1/2	ϕ3/8
MUY-GE24NA	100	50	ϕ5/8	ϕ3/8



Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

(3) M-Series Cooling Correction

	70	77	81	86	95	104	115
60	1.11	1.06	1.01	0.97	0.91	0.83	0.76
63	1.16	1.10	1.06	1.02	0.96	0.88	0.81
64	1.18	1.13	1.08	1.04	0.98	0.90	0.83
68	1.23	1.18	1.14	1.10	1.03	0.96	0.89
72	1.28	1.23	1.20	1.15	1.09	1.02	0.95
75	1.34	1.29	1.26	1.22	1.15	1.08	1.02
79	1.38	1.34	1.32	1.28	1.21	1.14	1.07

© 2014 Mitsubishi Electric US, Inc.

(1) Additional Refrigerant Charge (R410A: oz.)

NOTE: Refrigerant piping exceeding 25 ft. requires additional refrigerant charge according to the calcualation.

Model	Outdoor unit precharged	Refrigerant piping length (one way): ft.					
		25ft	30ft	40ft	50ft	60ft	65ft
MUY-GE09NA	1 lb. 12 oz.	0	1.62	4.86	8.10	11.34	12.96
MUY-GE12NA	2 lb. 9 oz.						
MUY-GE15NA-1							

NOTE: Calculation: X oz. = 1.62/5 oz./ft × (Refrigerant piping length (ft) - 25)

Model	Outdoor unit precharged	Refrigerant piping length (one way): ft.								
		25	30	40	50	60	70	80	90	100
MUY-GE18NA-1	3 lb. 7 oz.	0	1.08	3.24	5.40	7.56	9.72	11.88	14.04	16.20

NOTE: Calculation: X oz. = 1.08/5 oz./ft × (Refrigerant piping length (ft) - 25)

NOTE: Refrigerant piping exceeding 33 ft. requires additional refrigerant charge according to the calculation.

Model	Outdoor unit precharged	Refrigerant piping length (one way): ft.							
		33	40	50	60	70	80	90	100
MUY-GE24NA	4 lb. 3 oz.	0	4.14	10.06	15.98	21.90	27.82	33.74	39.66

NOTE: Calculation: X oz. = 2.96/5 oz./ft × (Refrigerant piping length (ft) - 33)

© 2014 Mitsubishi Electric US, Inc.

Outlet Air Speed And Coverage

Model name	Mode	Function	Airflow (CFM)	Air speed (ft./s.)	Coverage (ft.)
MSY-GE09NA-8	COOL	Dry	321	16.3	23.5
		Wet	286	14.5	21.0
MSY-GE12NA-8	COOL	Dry	321	16.3	23.5
		Wet	286	14.5	21.0
MSY-GE15NA-8	COOL	Dry	420	21.3	30.5
		Wet	385	19.5	28.0
MSY-GE18NA-8	COOL	Dry	420	21.3	30.5
		Wet	385	19.5	28.0
MSY-GE24NA	COOL	Dry	738	18.0	36.9
		Wet	661	16.1	33.2

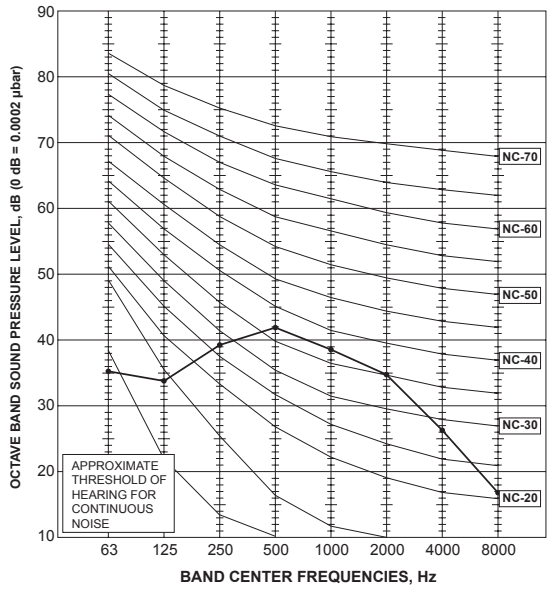
- The air coverage is the figure up to the position where the air speed is 1 ft./s., when air is blown out horizontally from the unit properly at the High speed position.
  The coverage should be used only as a general guideline since it varies according to the size of the room and furniture arranged inside the room.

© 2014 Mitsubishi Electric US, Inc.

(1) Indoor Unit

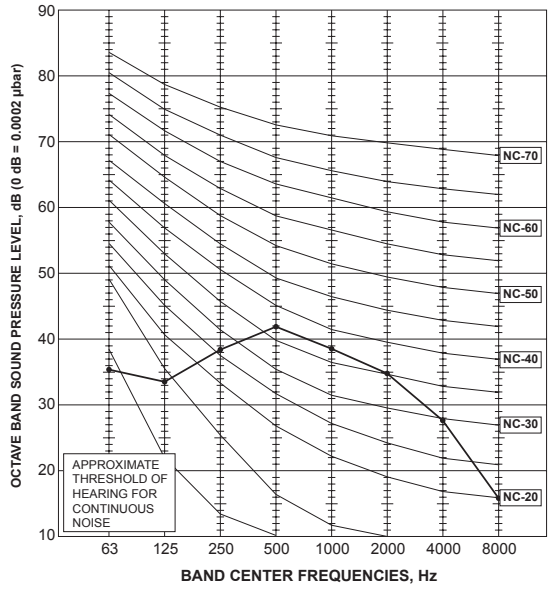
MSY-GE09NA-8

NOTCH	SPL(dB(A))	LINE
COOLING(SHi)	43	●—●
HEATING(SHi)	–	○—○



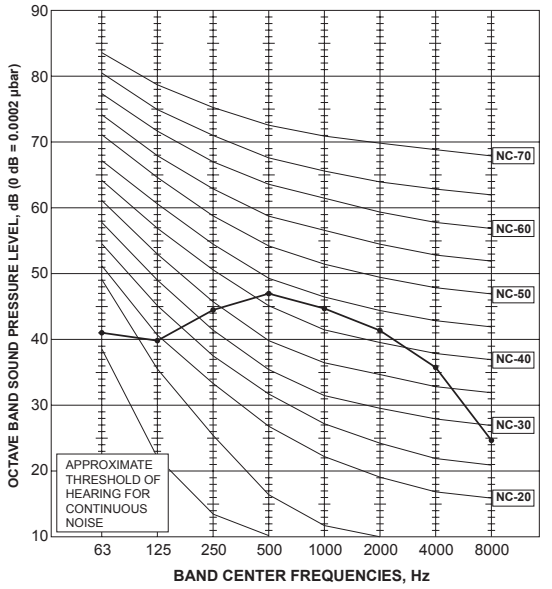
MSY-GE12NA-8

NOTCH	SPL(dB(A))	LINE
COOLING(SHi)	45	●—●
HEATING(SHi)	–	○—○



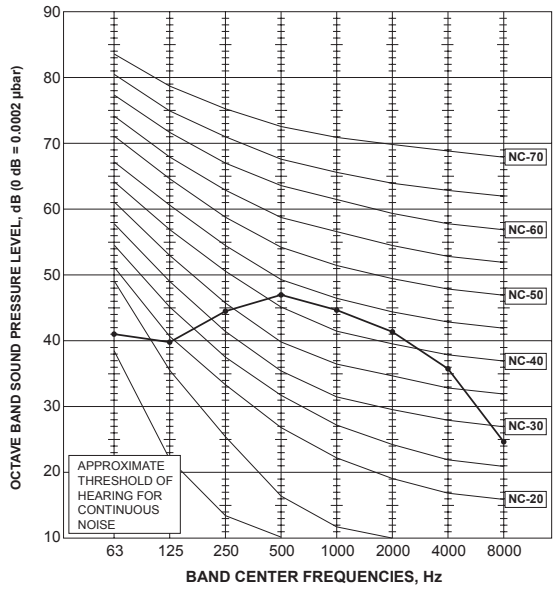
MSY-GE15NA-8

NOTCH	SPL(dB(A))	LINE
COOLING(SHi)	49	●—●
HEATING(SHi)	–	○—○



MSY-GE18NA-8

NOTCH	SPL(dB(A))	LINE
COOLING(SHi)	49	●—●
HEATING(SHi)	–	○—○



NOTE: The sound level is measured in an anechoic room where echoes are few, when compressor stops. The sound may be bigger than displayed level under actual installation condition by surrounding echoes. The sound level can be higher by about 2 dB than the displayed level during cooling and heating operation.

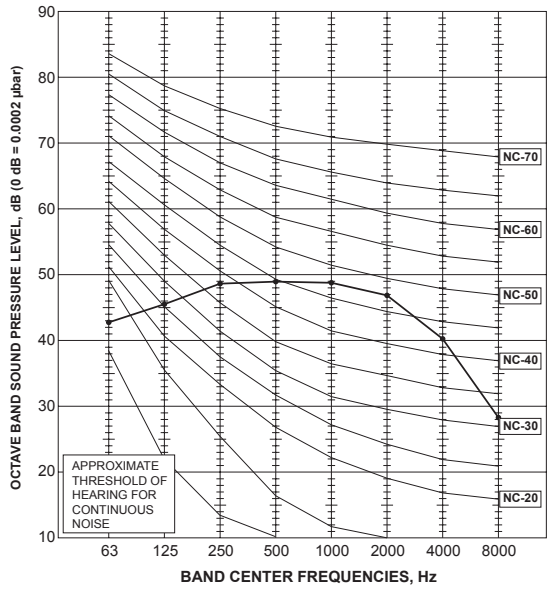
Due to continuing improvement, above specification may be subject to change without notice.

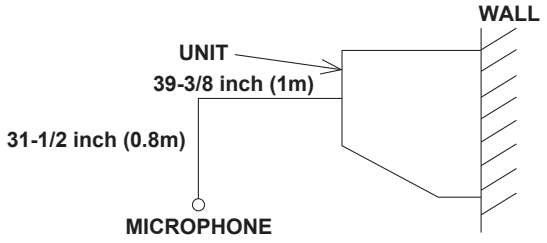
© 2014 Mitsubishi Electric US, Inc.

3-12. SOUND PRESSURE LEVELS

MSY-GE24NA

NOTCH	SPL(dB(A))	LINE
COOLING(Rated)	53	
HEATING(Rated)	–	





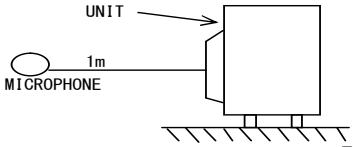
- NOTE:The sound level is measured in an anechoic room where echoes are few,when compressor stops.The sound may be bigger than displayed level under actual installation condition by surrounding echoes.The sound level can be higher by about 2 dB than the displayed level during cooling and heating operation.

Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

(2) Outdoor Unit

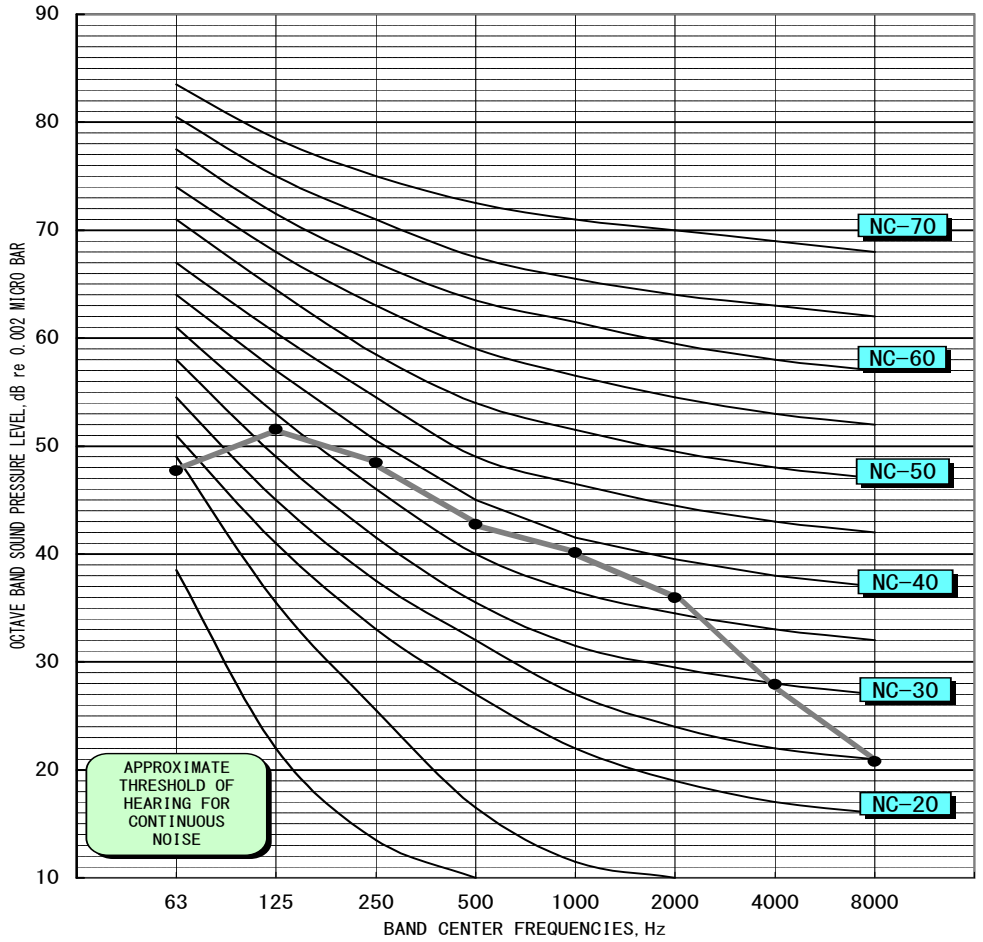
MUY-GE09NA



NOTCH	SPL (dB(A))	LINE
COOL	46	●——●
HEAT	–	□---□

Test conditions are based on JIS Z8731

Ambient temperature Cooling DB : 35℃ WB:24℃
Heating DB : 7℃ WB: 6℃

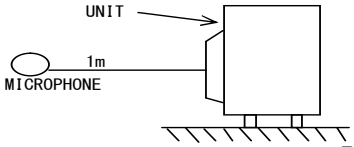


Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

3-12. SOUND PRESSURE LEVELS

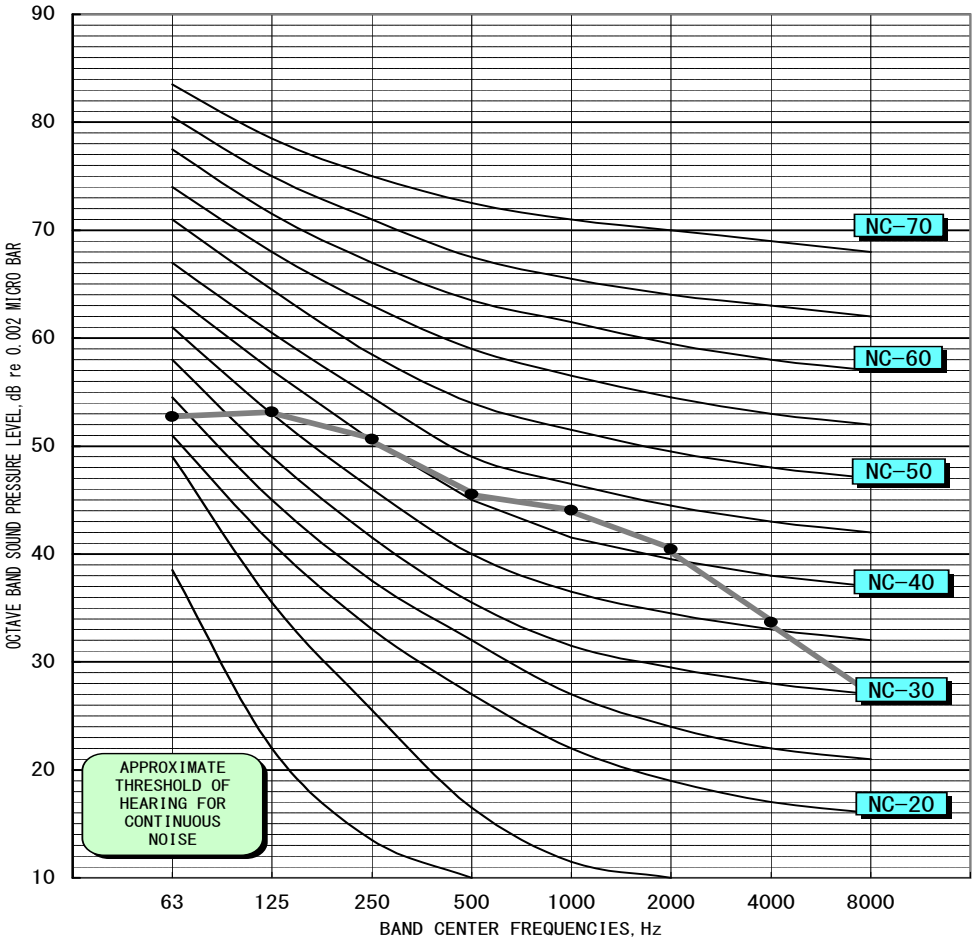
MUY-GE12NA



NOTCH	SPL (dB(A))	LINE
COOL	49	●——●
HEAT	–	□---□

Test conditions are based on JIS Z8731

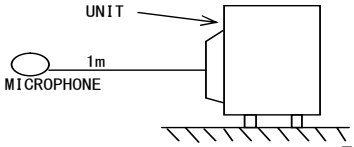
Ambient temperature Cooling DB : 35°C WB:24°C
Heating DB : 7°C WB: 6°C



Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

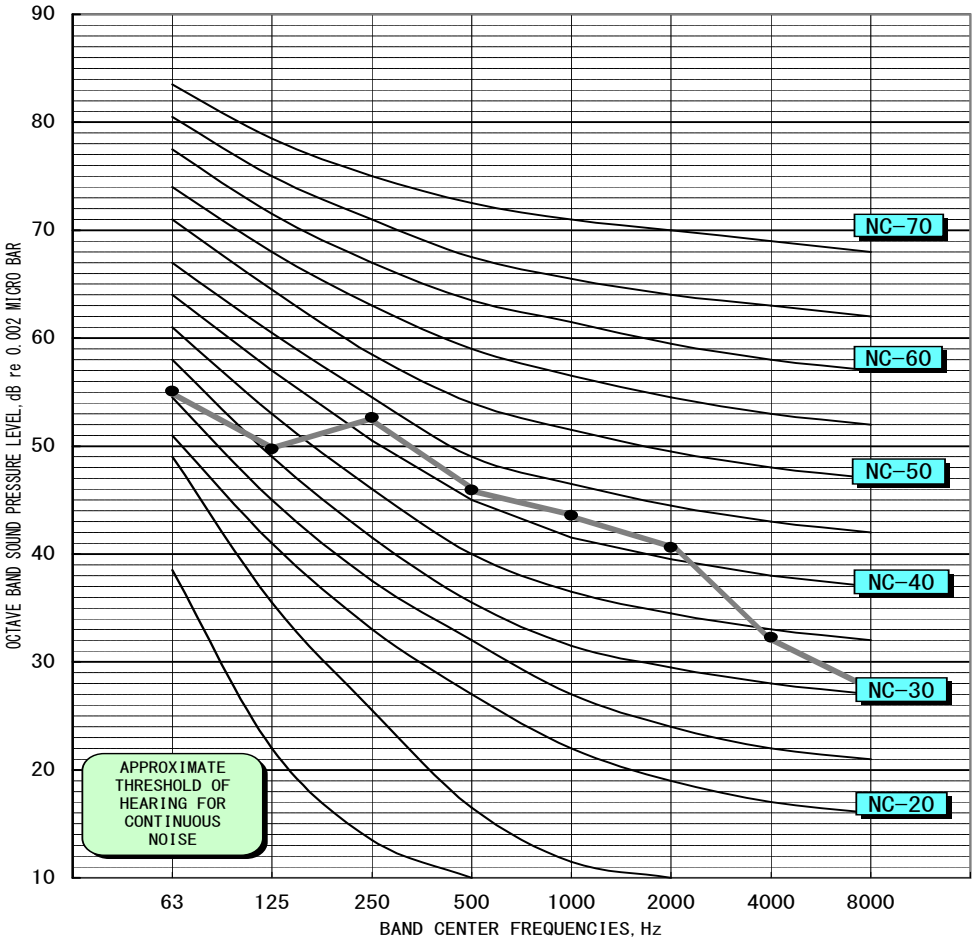
MUY-GE15NA-1



NOTCH	SPL (dB(A))	LINE
COOL	49	●——●
HEAT	–	□---□

Test conditions are based on JIS Z8731

Ambient temperature Cooling DB : 35°C WB:24°C
Heating DB : 7°C WB: 6°C



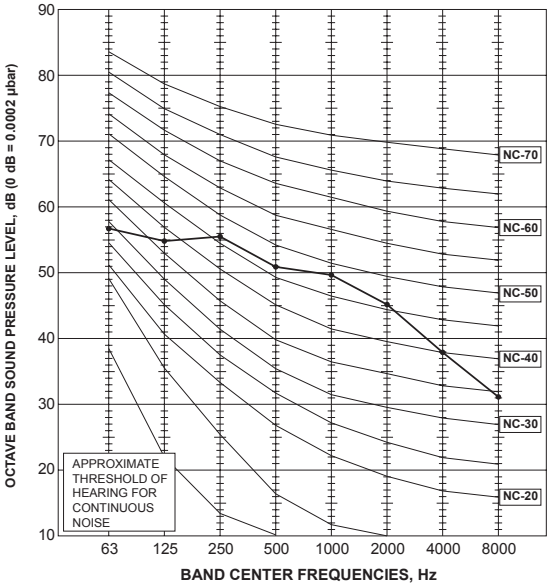
Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

3-12. SOUND PRESSURE LEVELS

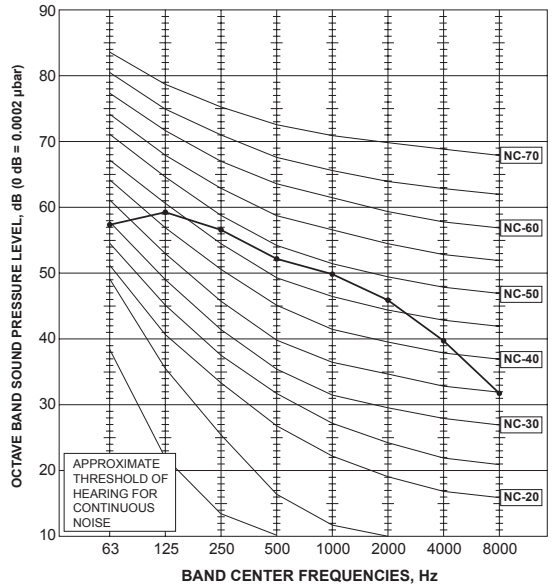
MUY-GE18NA-1

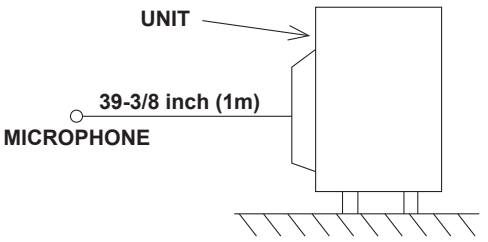
NOTCH	SPL(dB(A))	LINE
COOLING	54	●—●
HEATING	–	○—○



MUY-GE24NA

NOTCH	SPL(dB(A))	LINE
COOLING	55	●—●
HEATING	–	○—○





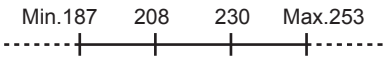
Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

3-13. STANDARD OPERATION RANGE

OPERATING RANGE

(A) POWER SUPPLY

	Rated voltage	Guaranteed Voltage (V)
Outdoor unit	208/230 V 1 phase 60 Hz	

(B) OPERATION

Mode	Condition	Intake air temperature (°F)			
		Indoor		Outdoor	
		DB	WB	DB	WB
Cooling	Standard temperature	80	67	95	—
	Maximum temperature	90	73	115	—
	Minimum temperature	67	57	14	—
	Maximum humidity	78%		—	

Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

3-14. ACCESSORIES

(1) Indoor Unit

Part Number	Descriptions	Applicable model
C13-103	Blue Diamond Sensor Extension Cable - 15 Ft.	All Models
DPLS1	Drain Pan Level Sensor/Control for indoor unit shut off to prevent Drain Pan Overflow	
MAC-2310FT-E	Anti-Allergy Enzyme Filter (qty of 2)	GE24
MAC-308FT-E	Platinum Catalyst Deodorizing Filter	GE06,09,12,15,18
MAC-333IF-E	System Control Interface - MA, Contact terminal, and M-NET Control Adapter, Supplemental heat and humidifier adaptor	All Models
MAC-408FT-E	Anti-Allergy Enzyme Filter (qty of 2)	GE06,09,12,15,18
MCCH1	Portable Central Controller (PCC) - controls up to 16 RedLINK Zones - requires an MHK1 on each indoor unit	All Models
MHK1	Wireless wall-mounted remote controller (MRCH1) with a signal receiver (MIFH1) and cable (MRC1) all in one kit	
MOS1	Outdoor Air Sensor - reads both outside temperature and humidity displayed on MRCH1 and MCCH1 if installed	
PAC-YT53CRAU	Simple MA Remote Controller (requires MAC-333IF-E interface for MSY/Z and MFZ indoor units)	
PAR-31MAA	Wall mounted, hard wired, multi-functional controller: used specifically for grouping (up to 16 units), twinning, lead/lag, and 7 day programmable applications (requires MAC-333IF-E interface for MSY/Z and MFZ indoor units)	
RCMKP1CB	Lockdown Bracket for wireless, hand-held, remote controllers	

Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

(1) Indoor Unit (Cont.)

Part Number	Descriptions		Applicable model
SI30-115	Mini-Condensation pump - 115 volt application		All Models
SI30-230	Mini-Condensation pump - 230 volt application		
TAZ-MS303	3-Pole Disconnect Switch 30 Amps 600 volts rated for interupting power supply at/near indoor unit - fits 2 X 4 utility box		
X87-721	Advanced Blue Diamond Mini-Condensation pump w/ Resevoir & Sensor - 208/230 volt application		
MLS143812T-15	Diamondback Linesets	1/4 x 3/8 x 15' / 1/2" Twin-Tube Insulation	GE09,12
MLS143812T-30		1/4 x 3/8 x 30' / 1/2" Twin-Tube Insulation	
MLS143812T-50		1/4 x 3/8 x 50' / 1/2" Twin-Tube Insulation	
MLS143812T-65		1/4 x 3/8 x 65' / 1/2" Twin-Tube Insulation	
MLS141212T-15		1/4 x 1/2 x 15' / 1/2" Twin-Tube Insulation	GE15,18
MLS141212T-30		1/4 x 1/2 x 30' / 1/2" Twin-Tube Insulation	
MLS141212T-50		1/4 x 1/2 x 50' / 1/2" Twin-Tube Insulation	
MLS141212T-65		1/4 x 1/2 x 65' / 1/2" Twin-Tube Insulation	
MLS141212T-100		1/4 x 1/2 x 100' / 1/2" Twin-Tube Insulation	

Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.

(1) Indoor Unit (Cont.)

Part Number	Descriptions		Applicable model
MPLS385812T-10	Diamondback Linesets	3/8 x 5/8 x 10' / 1/2" Twin-Tube Insulation	GE24
MPLS385812T-15		3/8 x 5/8 x 15' / 1/2" Twin-Tube Insulation	
MPLS385812T-30		3/8 x 5/8 x 30' / 1/2" Twin-Tube Insulation	
MPLS385812T-50		3/8 x 5/8 x 50' / 1/2" Twin-Tube Insulation	
MPLS385812T-65		3/8 x 5/8 x 65' / 1/2" Twin-Tube Insulation	
MPLS385812T-100		3/8 x 5/8 x 100' / 1/2" Twin-Tube Insulation	

© 2014 Mitsubishi Electric US, Inc.

(2) Outdoor Unit

Part Number	Descriptions	Applicable model
CWMB1	4 piece (1 pair) condensing unit wall mounting brackets - painted steel	All Models
DSD-400P	Outdoor Unit 3-1/4 inch Mounting Base (Pair) - Plastic	
MAC-640BH-U	Outdoor Unit Drain Pan Heater used during defrost cycle	GE09,12,15
MAC-641BH-U	Outdoor Unit Drain Pan Heater used during defrost cycle	GE18
MAC-642BH-U	Outdoor Unit Drain Pan Heater used during defrost cycle	GE24
MAC-860DS	Outdoor drain pan socket - Provides pipe connection to route condensate out of drain pan	
MAC-886SG-E	Outdoor air outlet guide for directing discharge air away from other outdoor unit	
MAC-889SG	Outdoor air outlet guide for directing discharge air away from other outdoor unit	GE09,12,15,18,24
ULTRILITE1	Condensing Unit Mounting Pad 16" x 36" x 3"	All Models

© 2014 Mitsubishi Electric US, Inc.

Due to continuing improvement, above specification may be subject to change without notice.

© 2014 Mitsubishi Electric US, Inc.